Section 19

Push Buttons and Operator Interface



XVIL CompactLiatht





Type J Compact Light

16 mm XXB6





22 mm XXB4

122 mm XXB5





XB5R Wireless Bantletyless PushButton

XB5S BiometricSwitth







30 mm Type K

30 mm Type SK

30 mm Type KX





Type KY Enclosure

Type B Wall Station





Pendan Stations

Tower Lights





Type A Foot Switch

Rotany Cam Swittch

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Selection Guide

Push Button and Pilot Light Selection Guide | Type J | XB6







XVLA2••



XVLA3••









	A V LAG	4		
Type of Product	Mini Pilot Light	Compact Pilot Light	16 mm Push Button (plastic)	16mm Push Button (plastic)
Mounting Hole Diameter	8 mm / 12 mm	17.5 mm (0.68 in)	16.2 mm	16.2 mm
Approvals	UL Recognized File E164353, CCN NKCR	UL File E78403, CCN NKCR	UL File E164353, CCN NKCR	UL File E164353, CCN NKCR
Approvais	CSA File LR44078, Class 3211-03	CSA File LR25490, Class 3211-03	CSA File LR44087 Class 3211-03	CSA File LR44087 Class 3211-03
Conforming to Standards	CE Marked RoHS Compliant IEC337-2 NF C 63-140 VDE 0660-200	CE Marked RoHS Compliant	CE Marked RoHS Compliant EN/IEC 60947-1, EN/IEC 60947-5- 1, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISC 03204-1 and EN/ISC 03350: 2006 (trigger action and mechanical latching Emergency Stop push buttons) JIS C 4520 and 853 UL 508 and CSA C22-2 no. 14 Gost CCC	CE Marked RoHS Compliant EN/IEC 60947-1, EN/IEC 60947-5- 1, EN/IEC 60947-5-5, EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching Emergency Stop push buttons) UL 508 and CSA C22-2 no. 14 CCC
Degree of Protection	IP40 (IP65 with seal)	NEMA 4, 13	IP65 NEMA 1, 12	IP65 NEMA 13
Operating Temperature F° (C°)	-13 to 158 (-25 to 70)	104 (40) Max	-13 to 158 (-25 to 70)	14 to 151 (-10 to 55)
Storage Temperature F° (C°)	-40 to 158 (-40 to 70)	104 (40) Wax	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)
Electric Shock Protection	_	_	_	_
Electrical Consumption	_	_	_	_
LED	25 mA	-	6-30 Vac/Vdc: 15 mA 48–120 Vac: 20 mA	10 mA
Rated Operational Characteristics	_	_	AC-15; B300 Ue = 240 Vac and le = 1.5A Ue = 120 Vac and le = 3 A Continuous 5 A	AC-13; Ue = 240 Vac and le = 0.7A Ue = 120 Vac and le = 1A Continuous 5 A
	_	_	DC-13; R300 Ue = 250 Vdc and le = 0.1 A Ue = 125 Vdc and le = 0.22 A	DC-13; Ue = 125 Vdc and le = 0.15 A Ue = 24 Vdc and le = 0.7 A
Connection Type	XVLA1** and XVLA2** = 2.8mm x 0.5mm Faston XVLA3** = Screw Terminals	Screw Terminal	Quick Connect/ Solder Tabs 0.11 x 0.02 in. (2.8 x 0.5 mm)	Quick Connect/ Solder Tabs 0.11 x 0.02 in. (2.8 x 0.5 mm)
Cable Size	1 x 1.5 mm² max.	2 x 14 AWG (copper only)	-	
Digest Location	XVL, page 19-10	Type J, page 19-11	XB6, page 19-12	XB6E, page 19-21

Schneider schneider-electric.us

Push Buttons and Pilot Lights

Refer to Catalogs DIA5ED2121212EN*, DIA5ED2121213EN**, DIA5ED2120503EN***, and 9001CT1103****

Push Button Selection Guide

	Push Button Selection Guide								
Family	XB4	XB5	ХВ7	9001K	9001SK	9001KX			
			New!)			START			
Type of Product	*22 mm Push Button (metal)	**22 mm Push Button (plastic)	***22mm Push Button (plastic)	****30 mm Push Button (metal)	****30 mm Push Button (plastic)	****30 mm Push Button (metal, square)			
Mounting Hole Diameter	22.5 mm	22.5 mm	22.5 mm	31 mm (1.22 in)	31 mm (1.22 in)	31 mm (1.22 in)			
Approvals	UL Listed File E164353, CCN NKCR UL Recognized File E164353. CCN NKCR2	UL Listed File E164353, CCN NKCR UL Recognized File E164353., CCN NKCR2	UL File E164353, CCN NKCR	UL File E78403. CCN NKCR	UL File E78403. CCN NKCR	UL File E78403. CCN NKCR			
	CSA File LR44087. Class 3211-03	CSA File LR44087. Class 3211-03	CSA File LR44087-122 Class 3211-03	CSA File LR25490. Class 3211-03	CSA File LR25490. Class 3211-03	CSA File LR25490. Class 3211-03			
	CE Marked RoHS Compliant	CE Marked RoHS Compliant	CE Marked RoHS Compliant	CE Marked RoHS Compliant	CE Marked RoHS Compliant	CE Marked RoHS Compliant			
	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5	EN/IEC 60947-1, EN/IEC 60947-5-1 for push buttons, pilot lights, illuminated push buttons and selector switches EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-5,	EN/IEC 60947-1	EN/IEC 60947-1				
Conforming to	EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push buttons)	EN/IEC 60204-1 and EN/ISO 13850: 2006 (trigger action and mechanical latching emergency stop push button).	EN/IEC 60204-1 and EN/ISO 13850 for Emergency Stop trigger action push buttons	EN/IEC60947-5-1	EN/IEC60947-5-1				
Standards	EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons)	EN/IEC 60364-5-53 (emergency switching of mechanical latching push buttons)		EN/IEC60947-5-4	EN/IEC60947-5-4				
	_	EN81-1 (emergency stop trigger action and mechanical latching push buttons with mechanical state indicator)							
	JIS C 4520	JIS C 4520		JIS C 4520 and 852	JIS C 4520 and 852				
	UL 508 CSA C22.2 No.14	UL 508 CSA C222 No.14	UL 508 CSA C22 No.14	UL 508 CSA C22.2 No.14	UL 508 CSA C22.2 No.14				
	GOST	GOST							
	CCC	CCC	GB 14048.5 for all XB7 range						
-	IP65, IP69, IP69K	IP65, IP69, IP69K	IP54, IP65	IP65	IP65	IP66			
Degree of Protection	IP66 for booted	IP66 for booted NEMA 1, 2, 3, 3R, 4, 4X, 12,	_	_	— NEMA 1, 2, 3, 3R, 4, 4X,	— NEMA 1, 2, 3, 3R, 4, 12,			
Operating Temperature F°	NEMA 1, 2, 3, 4, 4X, 12, 13 -40 to 158 (-40 to 70)	13 -40 to 158 (-40 to 70)	NEMA 3, 4, 12 -13 to 158 (-25 to 70)	NEMA 1, 2, 3, 3R, 4, 12, 13 -22 to 140 (-30 to 60)	12, 13 -22 to 140 (-30 to 60)	-22 to 140 (-30 to 60)			
(C°) Storage	. ,	, ,	, ,	, ,	, , ,	, ,			
Temperature F° (C°) Electric Shock	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)			
Protection	Class I	Class I	_	Class II	Class II	Class II			
Electrical Consumption									
LED	24 Vac/Vdc: 18 mA 120 Vac: 14 mA 240 Vac: 14 mA	24 Vac/Vdc: 18 mA 120 Vac: 14 mA 240 Vac: 14 mA	Illuminated Push Buttons: 24V - 18mA 120V - 12mA 230V - 22mA Pilot Lights 24V - 20mA 120V - 18mA	Incandescent and LED bulbs. For ratings, see Standard Light Modules, page 19-96.	Incandescent and LED bulbs. For ratings, see Standard Light Modules, page 19-96.	_			
Rated	AC-15; B600 Ue = 600 Vac and le = 1.2 A Ue = 240 Vac and le = 3A Ue = 120 Vac and le = 6A Continuous 10 A	AC-15; B600 Ue = 600 Vac and le = 1.2 A Ue = 240 Vac and le = 3 A Ue = 120 Vac and le = 6 A Continuous 10 A	230V - 16mA AC-14; D300 Ue = 240 Vac and le = 0.3A Ue = 120 Vac and le = 0.6A Continuous 4 A	AC-15; A600 Continuous 10 A	AC-15; A600 Continuous 10 A	AC-15; A600 Continuous 10 A			
Operational	DC-13; Q600 Ue = 600 Vdc and	DC-13; Q600 Ue = 600 Vdc and le = 0.1 A	DC-13; R300 Ue = 250 Vdc and le =	DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250 Vdc and	DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250 Vdc and	DC-13; Q600 Ue = 600 Vdc and le = 0.1 A Ue = 250 Vdc and			
Characteristics	le = 0.1 A Ue = 250 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A	Ue = 250Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A	0.1A Ue = 125 Vdc and le = 0.22A	le = 0.27 A Ue = 125 Vdc and	le = 0.27 A Ue = 125 Vdc and le = 0.55 A	le = 0.27 A Ue = 125 Vdc and le = 0.55 A			
Characteristics Connection	Ue = 250 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A IP20 Fingersafe Scre	Ue = 250Vdc and Ie = 0.27 A Ue = 125 Vdc and Ie = 0.55 A ew or Spring Terminal	Ue = 125 Vdc and le = 0.22A	le = 0.27 A Ue = 125 Vdc and le = 0.55 A	Ue = 125 Vdc and	Ue = 125 Vdc and le = 0.55 A			
Characteristics	Ue = 250 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A	Ue = 250Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A ew or Spring Terminal Spring Terminal: 1 x 24 AWG (0.22 mm²) min. 2 x 14 AWG (2.5 mm²) max.	Ue = 125 Vdc and le =	le = 0.27 A Ue = 125 Vdc and le = 0.55 A	Ue = 125 Vdc and le = 0.55 A 20 Fingersafe Screw Termina 1 x 24 AWG (0.22 mm²) min. 2 x 16 AWG (1.5 mm²)	Ue = 125 Vdc and le = 0.55 A al 1 x 24 AWG (0.2 2mm²) min. 2 x 16 AWG (1.5 mm²)			
Characteristics Connection Type	Ue = 250 Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A IP20 Fingersafe Scre Screw Terminal: 1 x 24 AWG (0.22 mm²) min. 2 x 14 AWG (2.5 mm²) max.	Ue = 250Vdc and le = 0.27 A Ue = 125 Vdc and le = 0.55 A w or Spring Terminal Spring Terminal: 1 x 24 AWG (0.22 mm²) min.	Ue = 125 Vdc and le = 0.22A Screw and captive clamp terminal connections Faston clip	le = 0.27 A Ue = 125 Vdc and le = 0.55 A IP 1 x 24 AWG (0.22 mm²) min.	Ue = 125 Vdc and le = 0.55 A 20 Fingersafe Screw Termina 1 x 24 AWG (0.22 mm²) min.	Ue = 125 Vdc and le = 0.55 A al 1 x 24 AWG (0.2 2mm²) min.			

			itroi Station Sei	ection Gui			
Family	XAL	XAP	9001B		9001KY/SKY		Point of Purchase (PoP)
			STRET				
	0	XAPA110	NEMA 1 Surface Mounting 9001BG••	NEMA 1 Flush Mounting 9001BF	9001KYSS3	9001KY3	New!
	•		NEMA 4	NEMA 7 and 9	•	•	Book Sagnature S
	XALD02	XAPA110	04 9001BW••	9001BR**	9001KYAF3	9001SKY2	and the same of

	70 (LD02	70 (17 (110)	900100	9001KTAF3 90015KTZ	
Type of Product/ Material	XALD—Polycarbonate XALK—Polycarbonate	XAPA—glass filled polyester XAPG—die cast zinc XAPE—anodized aluminum	9001BG—plastic cover 9001BF—stainless steel 9001BW—die cast zinc 9001BR—cast aluminum	9001KYAF—sheet steel 9001KYSS—stainless steel 9001KY—die cast zinc 9001KZ—die cast zinc 9001SKY—Polyester	Push Buttons, Pendants, Tower lights, Relays
Number of holes	1 to 3	0 to 16	1 to 3	1 to 6	
Type of Operators	XB5 (22mm)	XB5 (22mm)	Built in	9001K/SK (30mm)	
Available without Operators	Yes	Yes	No	Yes	
Available with Operators	Yes	No	Yes	Yes	
Approvals	UL File E164353 CCN NKCR	UL File E164353 CCN NKCR	UL File E78403 CCN NKCR	UL File E78403 CCN NKCR	UL. CSA. CE. ROHS
Αρριοναίο	CSA File LR 44087 Class 3211-03	CSA File LR 44087 Class 3211-03	CSA File LR 25490 Class 3211-03	CSA File LR 25490 Class 3211-03	OL, COA, CE, ROHS
	CE Marked	CE Marked	CE Marked	CE Marked	
Conforming to	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4,	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4,	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4,	EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4,	
Standards	JIS C 4520	JIS C 4520	JIS C 4520	JIS C 4520	
	UL 508	UL 508	UL 508	UL 508	
	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	CSA C22.2 No.14	
Degree of Protection	1, 4, 4X, 13 IP65 IP66 - Booted	XAPA - 4, 4X, 12, IP65 XAPG - 4, 12, IP65 XAPE - 4, 4X, 12, IP65	9001BG - 1 9001BF - 1 9001BW - 4 9001BR - 7, 9	9001KYAF - 3, 13 9001KYSS - 3, 4, 4X, 13 9001KY - 3, 4, 13 9001KZ - 3, 13 9001SKY - 3, 4, 4X, 13	
Operating Temperature F° (C°)	-13 to 158 (-25 to 70)	-13 to 158 (-25 to 70)			
Storage Temperature F° (C°)	-40 to 158 (-10 to 70)	-40 to 158 (-10 to 70)			
Cable Entry	No. 13 knock out	XAPA—undrilled XAPG—Tapped 3/4NPT XAPE—flush mount (n/a)	9001BG—1/2 &3/4 knockout 9001BF—N/A 9001BW—1/2-14NPT 9001BR—1/2-14NPT	9001KYAF—customer provided 9001KYSS—G conduit hub 9001KY—customer provided 9001KZ—1/2 & 3/4 knockout 9001SKV—G conduit hub	
Digest Location	XAL, page 19-113	XAP, page 19-113	9001B, page 19-116	KY/SKY, page 19-118	PoP Products, page 19-12



Tower Lights and Beacons Refer to Catalog DIA5ED2130801EN

Tower Lights and Beacons Selection Guide (1 of 2)

XVB I XVB C





Type of Product	Beacon	Tower Light		
Diameter	70mm	70mm		
Features	Product for Customer Configuration	Product for Customer Configuration		
Approvale	UL File E164353 CCN NKCR	UL File E164353 CCN NKCR		
Approvals	CSA File LR 44087 Class 3211 03	CSA File LR 44087 Class 3211 03		
	CE Marked	CE Marked		
Conforming to Standards	IEC/EN 60947-5-1	IEC/EN 60947-5-1		
comorning to citalida do	UL 508	UL 508		
	CSA 22.2 No 14	CSA 22.2 No 14		
Degree of Protection	IP65	IP65		
Operating Temperature F° (C°)	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)		
Storage Temperature F° (C°)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)		
Light Source	LED / Incandescent	LED / Incandescent		
Electrical Consumption	·	·		
LED Objects	24 Vac/dc: < 30 mA	24 Vac/dc: < 30 mA		
LED Steady	120-230 Vac: < 30 mA	120-230 Vac: < 30 mA		
	24 Vac/dc: < 40 mA	24 Vac/dc: < 40 mA		
LED Flashing with Buzzer	120-230 Vac: < 15mA	120-230 Vac: < 15mA		
With Buzzer	1 Hz (1 flash per second)	1 Hz (1 flash per second)		
	24 Vdc:	24 Vdc:		
	5 Joules unit < 430 mA; 10 J unit: < 850 mA	5 Joules unit < 430 mA; 10 J unit: < 850 mA		
Strobe (Energized)	120 Vac: 5 Joules unit: < 130 mA; 10 J unit: < 260 mA	120 Vac: 5 Joules unit: < 130 mA; 10 J unit: < 260 mA		
, ,	230 Vac: 5 Joules unit: < 105 mA: 10 J unit: < 210 mA	230 Vac: 5 Joules unit: < 105 mA: 10 J unit: < 210 mA		
	1 Hz (1 flash per second)	1 Hz (1 flash per second)		
	· · · ·	,		
Audible Sounders	12–48 Vac/dc: < 20 mA 120–230 Vac: < 50 mA	12–48 Vac/dc: < 20 mA 120–230 Vac: < 50 mA		
Audible Sounders	90 decibels at 1 meter	90 decibels at 1 meter		
Connection Type	Screw Clamp	Screw Clamp		
Connection Type		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Cable Size	1 x 16 AWG (1.5 mm²) With Cable End	1 x 16 AWG (1.5 mm²) With Cable End		
Digest Location	XVB 70 mm Beacons, page 19-121	XVB 70 mm Components, page 19-122		



			7	Tower Lights and I	Beacons Selection	n Guide (2 of 2)	
Family	XVC 4	XVC 6	XVC 1	XVU	XVGU	XVR	xvs
				Newl	Newl		
Type of Product	*Tower Light	*Tower Light	*Tower Light	**Tower Light	**Tower Light	***Rotating Mirror Beacon	***Siren and Electronic Alarm
Diameter	40 mm	60 mm	100 mm	60mm	60mm	84/106/120/130 mm	—
Features		re-assembled and	·	Programmable LED module with multiple colors, flashing, blinking, and rotating	Programmable with Magelis through USB	All devices are pre- assembled and pre-wired. XVR12•••S includes buzzer: 70 to 90 decibels	Adjustable Tones XVS14BMW, 0 to 105 decibels, 43 tones XVS72BM••, 0 to 90 decibels, 16 tones
Approvals	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN NKCR	UL file: E164353 CCN : NKCR	UL File E164353 CCN NKCR	UL Recognized E164353 CNN NKCR	UL Recognized E164353 CNN UCST
	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03	CSA File : 225619 CLASS : 3211-07	cUL File: E164353 CCN: NKCR7	CSA LR44087 Class 3211-03	CSA LR44087 Class 3211-03
	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked	CE Marked
	EN61000-6-2	EN61000-6-2	EN61000-6-2	EN 60947-1	EN 61000-6-2	EN61000-6-2	_
Conforming to	EN61000-6-3	EN61000-6-3 EN61000-6-4	EN61000-6-3 EN61000-6-4	EN 60947-5-1	EN 61000-6-2	EN61000-6-4	_
Standards	UL 508	UL 508	UL 508	UL508	UL508	UL 508	UL 508
	CSA 22.2	CSA 22.2	CSA 22.2	CSA C22.2 No.14	CSA C22.2 No.14	CSA 22.2 No. 14	CSA 22.2 No. 14
Degree of	No. 14	No. 14	No. 14		+		
Protection Operating Temperature F°	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)	-13 to122 (-25 to 50)	-13 to 122 (-25 to 50)	32 to 131 (0 to 55)	-14 to 122 (-10 to 50)	-4 to 122 (-20 to 50)
Storage Temperature F°	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-13 to 150 (-25 to 65)	-31 to 158 (-35 to 70)	-31 to 158 (-35 to 70)	-31 to 158 (-35 to 70)
(C°)	LED	LED	LED	LED	LED	LED	_
Electrical Consum		I LLD	LED	Body unit ≤ 400mA	400mA	LLD	
LED Steady	24 V: 1 unit = 40mA; 2 unit = 80mA; 3 unit = 120mA 4 unit = 160mA; 5 unit = 200mA		24 V: 1 unit = 100mA; 2 unit = 200mA; 3 unit = 300mA 4 unit = 400mA; 5 unit = 500mA	LED Units ≤ 50 mA	Programmable with Magelis through USB	XVR08, XVR10, XVR12, and XVR13 (without buzzer) 12 Vac/dc: 360mA 24 Vac/dc: 180mA	_
LED Flashing ** with Buzzer	**24 V: 1 unit = 90 mA; 2 unit = 130 mA; 3 unit = 170 mA 4 unit = 210 mA; 5 unit = 250 mA 0.7 to 3 Hz (1 flat sec)	sh per 0.7 to 3	24 V: 1 unit = 150mA; 2 unit = 250mA; 3 unit = 350mA 4 unit = 450mA; 5 unit = 550mA 3 to 3.5 Hz (1 flash per 3 to 3.5 sec)	Buzzer ≤ 70 mA Flasher and multi-color ≤ 70 mA	Programmable with Magelis through USB	XVR12 with buzzer: 12 Vac/dc: 400 mA 24 Vac/dc: 230 mA 3 Hz (1 flash per 3 sec)	_
Strobe (Energized)	_	_	— :	_	_	_	_
Audible	70 to 85 decibels at 1 meter	70 to 85 decibels at 1 meter	60 to 85 decibels at 1 meter	_	_	_	XVS14BMW 12 Vdc: 350mA 24 Vdc: 400 mA 105 decibels at 1 m
Sounders	_	_	_	_	_	_	XVS72BM 12 Vdc: 280 mA 24 Vdc: 190 mA 90 decibels at 1 m
Connection Type	Pre-Wired, Color-Coded Wires cable length: 600mm XVC4** 900mm XVC4**K 500mm XVC4**5S	Pre-Wired, Color-Coded Wires cable length: 600mm XVC6•• 850mm XVC6••K 550mm XVC6••5S 850mm XVC6••5SK	Pre-Wired, Color-Coded Wires cable length: 500mm XVC1-+K 500mm XVC1-+SK 550mm XVC6-+SS 850mm XVC6-+5SK	Screw Clamp	USB power cable: - 300 mm/ 11.81 in. for tube mounting - 400 mm/15.75 in. for direct mounting	Pre-Wired cable length: 500mm XVR08••• 400mm XVR10••• 400mm XVR12••• 400mm XVR13•••	XVS14BMW Pre-Wired, Color- Coded Wires cable length: 500mm XVS14 XVS72BM•• Not Pre-Wired
Cable Size	22 AWG (0.33	22 AWG (0.33	22 AWG (0.33	22 - 16 AWG	_	18 AWG (0.75 mm²)	_
Digest Location	mm²) XVC, page 19-	mm²) XVC, page 19- 124	mm²) XVC, page 19-124	XVU, page 19-126	XVGU, page 19-128	XVR, page 19-129	XVS, page 19-130
	124 For	Tower Lights catalog nu	mbers:		1	I	1
		first dot denotes voltage so second dot denotes color					



Pendant Stations Refer to Catalogs DIA5ED2140103EN* and 9001CT1001**

Pendant Station Selection Guide

		i Gildalit O	tation Selection G	uiue	
Family	XAR eXL Hoist	9001BW	XACA2	XACA0	9001SKYP
	New!)				

Type of Product	*Wireless Pendant	**2-Button Pendant	**2-Button Pistol Grip Pendant	**General Purpose Pendant	**Heavy Duty Pendant
Number of operators	6	2	2	2, 3, 4, 6, 8, 12	2, 4, 6, 8, 10
Approvals	UL File E164353, CCN NKCR/NKR7 (cULus) CSA File LR44087 Class 3211-07	UL File E78403 CNN NKCR CSA File LR25490 Class 3211-03	UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03	UL File E164353 CNN NKCR CSA File LR 44087 Class 3211-03	UL File E78403 CNN NKCR CSA File LR25490 Class 3211-03
Conforming to Standards	EN/IEC 60947-5-1, EN/IEC 60204-32, UL 508, CSA 22-2 No. 14 and EN/ISO 13849-1, EN/IEC 62061, EN/ISO 13850 EN 13557, EN 15011 UL, CSA, CE, CCC,	CE Marked	EN/IEC 60947-5-1, EN/IEC 60204-32, EN/IEC 60947-5-5, and EN/ISO 13850 (for versions with trigger action emergency stop) UL 508 CSA C22-2 No. 14 RoHS compliant	EN/IEC 60947-5-1, EN/IEC 60204-32, EN/IEC 60947-5-5, and EN/ISO 13850 (for versions with trigger action emergency stop) UL 508 CSA C22-2 No. 14 ROHS compliant	CE Marked
Degree of Protection	IP65, NEMA 4	NEMA 1, 3, 3R, 4, 4X	NEMA 1, 4, 4X, 5 IP65 IK08	NEMA 1, 4, 4X, 5 IP65 IK08	NEMA 1,2, 3, 4, 4X, 12, 13
Operating Temperature F° (C°)	-4 to 140 (-20 to 60)	-13 to 140 (-25 to 60)	-13 to 140 (-25 to 60)	-13 to 140 (-25 to 60)	-13 to 140 (-25 to 60)
Storage Temperature F° (C°)	-4 to 140 (-20 to 60)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)	-40 to 158 (-40 to 70)
Housing Material	Polycarbonate (PBT)	Polycarbonate / PET Polyester Blend	Yellow Polypropylene	Yellow Polypropylene	Yellow Polycarbonate
Rated Operational	ZBRH●H AC - C300 ZBRH●W	AC - B600	AC-15: A600 or Ue = 600V, le = 1.2A or Ue = 240V, le = 3A	AC-15: A600 or Ue = 600V, le = 1.2A or Ue = 240V, le = 3A	SKRU2-SKRU5 AC - B300 DC - P600
Characteristics [1]	AC - B300 DC - R300	DC - P600	DC-13: Q600 or Ue = 600V. le = 0.1A or Ue = 250V, le = 0.27A	DC-13: Q600 or Ue = 600V. le = 0.1A or Ue = 250V, le = 0.27A	SKRU1, 10, 11 AC - A600 DC - P600
Thermal Current	ZBRH∙H - 4A ZBRH∙W - 6A	Continuous 5A	Continuous 10A	Continuous 10A	_
Connection Type	_	1/2 in. NPT screw clamp terminals	8–26 mm cable entry screw clamp terminals	8–26 mm cable entry screw clamp terminals	NPT threaded conduit entry screw clamp terminals
Cable Size	None: Wireless		1 x 0.5 mm² (20AWG) min. 2 x 1.5 mm² (16AWG) max. 1 x 2.5 mm² (14AWG) max.	1 x 14 AWG (copper only)	_
Digest Location	XAR, page 19-131	Type BW, page 19-134	XAC, page 19-135	XAC, page 19-135	SKYP, page 19-139

XB4-XB5 Common Operators, Complete with Contact Blocks

Refer to Catalogs DIA5ED2121212EN and DIA5ED2121213EN



XB4-XB5 Common Operators

Table 19.1: BLACK—Start Push Buttons (flush head)

Table 19.2: RED-	-Stan Duch Bi	uttone lovtone	lad baad)
14DIE 13.4. NED-	-3100 Fu511 DI	ulluns lexiend	ieu iieau)

14410 10111 221011 014111 4011 24110110 (11401111044)							(.		,
Operator Style	Description	Contact Block	Туре	Legend Plate	Operator Style	Description	Contact Block	Туре	Legend Plat
XB4 Die Cast Chrome		1 N.O.	XB4BA21	ZBY2303	XB4 Die Cast Chrome		1 N.C.	XB4BL42	ZBY2304
XB5 Double Insulated	Th	1 N.O.	XB5AA21	ZBY2303	XB5 Double Insulated		1 N.C.	XB5AL42	ZBY2304

Table 19.3: BLACK—Off-On Selector Switch									
Operator Style	Description Contact Block		Туре	Legend Plate					
XB4 Die Cast Chrome		1 N.O.	XB4BD21	ZBY2367					
XB5 Double Insulated		1 N.O.	XB5AD21	ZBY2367					

Table 19.4: Hand-Off-Auto Selector Switch					
Operator Style	Description	Contact Block	Туре	Legend Plate	
XB4 Die Cast Chrome		2 N.O.	XB4BD33	ZBY2387	
XB5 Double Insulated		2 N O	XB5AD33	ZBY2387	

Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		120 Vac Red LED	XB4BVG4	ZBY2311
XB5 Double Insulated		120 Vac Red LED	XB5AVG4	ZBY2311

Table 19.6: GREEN—120 Vac LED—Off Pilot Light						
Operator Style	Description	Contact	Туре	1		

	•			
Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		120 Vac Green LED	XB4BVG3	ZBY2312
XB5 Double Insulated		120 Vac Green LED	XB5AVG3	ZBY2312

Table 19.7: RED-40 mm Mushroom Stop (Push-Pull)

,				
Operator Style	Description	Contact Block	Туре	Legend Plate
XB4 Die Cast Chrome		1 N.C.	XB4BT42	ZBY9320
XB5 Double Insulated		1 N.C.	XB5AT42	ZBY9320

Table 19.8: RED-40 mm Mushroom Emergency Stop (Trigger Action, Turn-to-Release)

Operator Style	Description	Contact Block	Туре	Legend Plate 60 mm Round
XB4 Die Cast Chrome		1 N.O. /1 N.C.	XB4BS8445	ZBY9320
XB5 Double Insulated		1 N.O./1 N.C.	XB5AS8445	ZBY9320

When ordering, please specify:
Quantity
Type or Catalog Number



Type K, SK Common Operators, Complete with Contact Blocks

Class 9001 / Refer to Catalog 9001CT1103

Type K and SK Common Operators

Table 19.9: BLACK—Start Push Buttons

Table 1010. BETTOTE CHART GOT BULLOTTE					
Operator Style	Description	Contact Block	Type [1]	Legend Plate [1]	
30 mm Industrial (Metal)		<u>0 </u>	KR1BH13	KN201	
30 mm Corrosion Resistant (Non-Metallic)		0 0	SKR1BH13	KN101SP	

Table 19.10: RED—Stop Push Buttons

Operator Style	Description	Contact Block	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)		0 0	KR1RH13	KN202
30 mm Corrosion Resistant (Non- Metallic)		0 0	SKR1RH13	KN102RP

Table 19.11: BLACK-Off-On Selector Switch

Operator Style	Description	Contact Sequence (Contact Block Included)	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)		1 0 1	KS11BH13	KN244
30 mm Corrosion Resistant (Non-Metallic)			SKS11BH13	KN144SP

Table 19.12: BLACK—Hand-Off-Auto Selector Switch

Operator Style	Description	Contact Sequence (Contact Block Included)	Type <i>[1]</i>	Legend Plate [1]
30 mm Industrial (Metal)	3	* † *	KS43BH13	KN260
30 mm Corrosion Resistant (Non- Metallic)		1 0 0 0 0 1	SKS43BH13	KN160SP

Table 19.13: RED-120 Vac-On Pilot Light

Operator Style	Description	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)		KP1R31	KN203
30 mm Corrosion Resistant (Non-Metallic)		SKP1R31	KN103SP

Table 19.14: GREEN—120 Vac—Off Pilot Light

Table 19.14. GREEN—120 Vac—On Filot Light							
Operator Style	Description	Type [1]	Legend Plate [1]				
30 mm Industrial (Metal)		KP1G31	KN204				
30 mm Corrosion Resistant (Non- Metallic)		SKP1G31	KN104SP				

Table 19.15: RED—120 Vac—On Push-To-Test Pilot Light

Operator Style	Description	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)		KT1R31	KN203
30 mm Corrosion Resistant (Non-Metallic)		SKT1R31	KN103SP

Table 19.16: GREEN—120 Vac—Off Push-To-Test Pilot Light

Operator Style	Description	Type [1]	Legend Plate [1]
30 mm Industrial (Metal)		KT1G31	KN204
30 mm Corrosion Resistant (Non- Metallic)		SKT1G31	KN104RP

When ordering, please specify:

Quantity Class Number (if appropriate) Type or Catalog Number

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Type XVL Class 9001

XVL Miniature LED

Table 19.17: Specifications

Conforming to standards	IEC 337-2, NF C 63-140, VDE 0660-200
Degree of protection	IP40 (IP65 with seal) conforming to IEC 529 and NF C 20-010
Current consumption	25 mA
Cabling	XVLA1••, XVLA2••: tags for 2.8 x 0.5 mm Faston connectors, also for soldered connections. XVLA3••: threaded connectors, clamping, capacity: min. 1 x 0.2 mm², max. 1 x 1.5 mm²

Table 19.18: With Black Bezel, Raised LED

Description	Supply Voltage DC	Color	Catalog Number	
Ø 8 mm [1]		Green	XVLA123	
with integral ballast resistor	12 V	Red	XVLA124	
and reverse polarity protection diode Degree of protection IP40		Amber	XVLA125	
		Green	XVLA133	
LED pilot lights Ø 8 mm, with black bezel, visible LED XVLA1●●	24 V	Red	XVLA134	
VISIDIE LED XVLAT ••		Amber	XVLA135	

Table 19.19: With Integral Lens Cap, Covered LED

Description	Supply Voltage DC	Color	Catalog Number
Ø 8 mm/1]		Green	XVLA223
with integral hallast resistor	12 V	Red	XVLA224
and reverse polarity protection diode		Amber	XVLA225
Degree of protection IP40		Green	XVLA233
Ø 8 mm, with lens incorporated, LED XVLA2	24 V	Red	XVLA234
LED XVLAZ		Amber	XVLA235
Ø 12 mm [2]		Green	XVLA323
with integral hallast resistor	12 V	Red	XVLA324
and reverse polarity protection diode		Amber	XVLA325
Degree of protection IP40 Ø 12 mm, with lens incorporated, LED XVLA3		Green	XVLA333
	24 V	Red	XVLA334
		Amber	XVLA335

Table 19.20: Accessories

	Catalog Number	
Tightening tools	For Ø 8 mm pilot lights	XVLX08
(Sold singly)	For Ø 12 mm pilot lights	XVLX12
Seals (IP65)	For Ø 8 mm pilot lights	XVLZ911
(Sold in lots of 10)	For Ø 12 mm pilot lights	XVLZ912







XVLA2●●



XVLA3••







Type J Compact Pilot Lights

Class 9001



Type JP1R29

Standard, Push-To-Test, and Remote Test Pilot Lights

Class 9001 Type J compact pilot lights are designed to be mounted in a 0.69 in. (11/16 in. or 17.5 mm) diameter mounting hole. Each terminal accepts up to two 14 AWG wires (CU only). Type J compact pilot lights meet NEMA 4 (watertight) and NEMA 13 (oiltight). Type JT push-to-test pilot lights have contacts built into the encapsulated body. Type JTR remote test pilot lights have dual inputs for one push remote testing—all you need is a push button with a current rating equal to or greater than the total lamp draw. Type JTR remote test pilot lights can also be energized from two separate input signals of the same voltage and polarity. This is done by wiring the Test terminal to the second input signal voltage and polarity. This is done by wiring the Test terminal to the second input signal.

Table 19.21: Standard Pilot Light [3]

Style/Voltage			Color Cap[4]		Lamp	Replacement	
Style/ volta	Style/ Voltage		Red	Green	Yellow	Lamp	Lamp
Transforme 110–120 V, 50–		JP1	JP1R29	JP1G29	JP1Y29	6.3 V, 0.15 A	2550101020
Incandesce 120 Vac/Vo		JP38	JP38R29	JP38G29	JP38Y29	120 V, 0.015 A	2550101040
Incandesce 24–28 Vac/\		JP35	JP35R29	JP35G29	JP35Y29	28 V, 0.040 A	2550101024
LED, 24–28	Vac	-	JP35LRR29	JP35LGG29	JP35LYY29	28 V, 0.03 A	_
LED, 24-28	Vdc	-	JP35DRR29	JP35DGG29	JP35DYY29	28 V, 0.03 A	_
LED, 120 V	ac	-	JP38LRR29	JP38LGG29	JP38LYY29	28 V, 0.03 A	_
Replacement	Red	-	_			_	6508805207
LED. 120 Vac	Yellow	_	_	_	_	_	6508805208
EED, 120 Vao	Green	_	_	_	_	_	6508805209

Table 19.22: Push-To-Test Pilot Light [3]

Style/Voltage		Color Cap[4]				Replace-	
		None	Red	Green	Yellow	Lamp	ment Lamp
Transformer, 110–120 V, 50–60	Hz	JT1	JT1R29	JT1G29	JT1Y29	6.3 V, 0.15 A	2550101020
Incandescent, 120	Vac/Vdc	JT38	JT38R29	JT38G29	JT38Y29	120 V, 0.015 A	2550101040
Incandescent, 24- Vdc	28 Vac/	JT35	JT35R29	JT35G29	JT35Y29	28 V, 0.040 A	2550101024
LED, 24-28 Vac		_	JT35LRR29	JT35LGG29	JT35LYY29	28 V, 0.03 A	_
LED, 24-28 Vdc		_	JT35DRR29	JT35DGG29	JT35DYY29	28 V, 0.03 A	
LED, 120 Vac		_	JT38LRR29	JT38LGG29	JT38LYY29	28 V, 0.03 A	_
Danisana	Red	_	_	_	_	_	6508805207
Replacement LED. 120 Vac	Yellow		_	_	_	_	6508805208
LLD, 120 vac	Green	_	_	_	_	_	6508805209

Table 19.23: Color Caps, Class 9001 Type J

Color	Replacement Color Caps		
Color	Plastic[4]		
Red	R29		
Green Amber	G29 A29		
Blue	L29		
White	W29		
Yellow	Y29		

Table 19.24: Legend Plates

Description		Maximum Number of Lines	Maximum Number of Characters	Catalog Number[4]
Blank	Black Field Red Field			JN100 JN100R
Special Marking (Specify Marking)	Black Field Red Field	2	8	JN199 JN199R
Blank	Aluminum Field			JN700
Special Marking (Specify Marking)	Aluminum Field	2	16	JN799

XB6CF ···· B



XB6 Complete Devices

Table 19.25: Illuminated Push Buttons (12–24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs



Table 19.26: Illuminated Push Buttons (120 Vac LED included)
Complete Units with Quick Connectors/Solder Tabs

, p. 666	1	-,		1		
Type of Operator	Type of	Contact	Color	Rectangular	Square	Round
	N 0	l No		Rectangular	Catalog Number	Round
	N.O.	N.C.		V/2 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		V/2011111012
			White	XB6DW1G1B	XB6CW1G1B	XB6AW1G1B
	1	l _	Green	XB6DW3G1B	XB6CW3G1B	XB6AW3G1B
			Yellow	XB6DW5G1B	XB6CW5G1B	XB6AW5G1B
			Blue	XB6DW6G1B	XB6CW6G1B	XB6AW6G1B
Flush,		1	Red	XB6DW4G2B	XB6CW4G2B	XB6AW4G2B
spring return			White	XB6DW1G5B	XB6CW1G5B	XB6AW1G5B
			Green	XB6DW3G5B	XB6CW3G5B	XB6AW3G5B
	1	1	Red	XB6DW4G5B	XB6CW4G5B	XB6AW4G5B
			Yellow	XB6DW5G5B	XB6CW5G5B	XB6AW5G5B
			Blue	XB6DW6G5B	XB6CW6G5B	XB6AW6G5B
		_	White	XB6DF1G1B	XB6CF1G1B	XB6AF1G1B
	1		Green	XB6DF3G1B	XB6CF3G1B	XB6AF3G1B
			Yellow	XB6DF5G1B	XB6CF5G1B	XB6AF5G1B
			Blue	XB6DF6G1B	XB6CF6G1B	XB6AF6G1B
Flush.	_	1	Red	XB6DF4G2B	XB6CF4G2B	XB6AF4G2B
maintained		1	White	XB6DF1G5B	XB6CF1G5B	XB6AF1G5B
			Green	XB6DF3G5B	XB6CF3G5B	XB6AF3G5B
	1		Red	XB6DF4G5B	XB6CF4G5B	XB6AF4G5B
			Yellow	XB6DF5G5B	XB6CF5G5B	XB6AF5G5B
			Blue	XB6DF6G5B	XB6CF6G5B	XB6AF6G5B
			White	XB6DE1G1B	XB6CE1G1B	XB6AE1G1B
			Green	XB6DE3G1B	XB6CE3G1B	XB6AE3G1B
	1	_	Yellow	XB6DE5G1B	XB6CE5G1B	XB6AE5G1B
			Blue	XB6DE6G1B	XB6CE6G1B	XB6AE6G1B
Extended,	_	1	Red	XB6DE4G2B	XB6CE4G2B	XB6AE4G2B
spring return			White	XB6DE1G5B	XB6CE1G5B	XB6AE1G5B
			Green	XB6DE3G5B	XB6CE3G5B	XB6AE3G5B
	1	1	Red	XB6DE4G5B	XB6CE4G5B	XB6AE4G5B
			Yellow	XB6DE5G5B	XB6CE5G5B	XB6AE5G5B
		<u></u>	Blue	XB6DE6G5B	XB6CE6G5B	XB6AE6G5B

For Legends, see XB6 Legend Plates and Legends, page 19-21

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XB6 Complete Devices

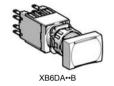
Refer to Catalog DIA5ED2130406EN

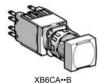














XB6AA • • B

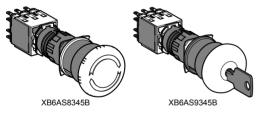




Table 19.27: Pilot Lights (12-24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs

Color	Rectangular	Square Catalog Number	Round
White	XB6DV1BB	XB6CV1BB	XB6AV1BB
Green	XB6DV3BB	XB6CV3BB	XB6AV3BB
Red	XB6DV4BB	XB6CV4BB	XB6AV4BB
Yellow	XB6DV5BB	XB6CV5BB	XB6AV5BB
Blue	XB6DV6BB	XB6CV6BB	XB6AV6BB

Table 19.28: Pilot Lights (120 Vac LED) Complete Units with Quick Connectors/Solder Tabs

Color	Rectangular	Square Catalog Number	Round
White	XB6DV1GB	XB6CV1GB	XB6AV1GB
Green	XB6DV3GB	XB6CV3GB	XB6AV3GB
Red	XB6DV4GB	XB6CV4GB	XB6AV4GB
Yellow	XB6DV5GB	XB6CV5GB	XB6AV5GB
Blue	XB6DV6GB	XB6CV6GB	XB6AV6GB

Table 19.29: Push Buttons (Non-Illuminated) Complete Units with Quick Connectors/Solder Tabs

Type of Push	Type of Contact		Color	Rectangular	Square	Round
	N.O.	N.C.			Catalog Number	
			White	XB6DA11B	XB6CA11B	XB6AA11B
			Black	XB6DA21B	XB6CA21B	XB6AA21B
	1	_	Green	XB6DA31B	XB6CA31B	XB6AA31B
			Yellow	XB6DA51B	XB6CA51B	XB6AA51B
			Blue	XB6DA61B	XB6CA61B	XB6AA61B
Elizabe anada a	_	1	Black	XB6DA22B	XB6CA22B	XB6AA22B
Flush, spring return			Red	XB6DA42B	XB6CA42B	XB6AA42B
return		1	White	XB6DA15B	XB6CA15B	XB6AA15B
			Black	XB6DA25B	XB6CA25B	XB6AA25B
	_		Green	XB6DA35B	XB6CA35B	XB6AA35B
	1		Red	XB6DA45B	XB6CA45B	XB6AA45B
			Yellow	XB6DA55B	XB6CA55B	XB6AA55B
			Blue	XB6DA65B	XB6CA65B	XB6AA65B

Table 19.30: Trigger Action Emergency Stop Mushroom Head Push Buttons (Color Red) [1]

(50.0.1.0.0)[1]						
Shape of Head	Type of Push	Type of Contact		Diameter	Catalog Number	
	Type of Fusii	N.O.	N.C.	of Head (mm)	Catalog Nulliber	
		_	1	30	XB6AS8342B	
	Turn-to-release	1	1	30	XB6AS8345B	
	Vay ralages	_	1	30	XB6AS9342B [2]	
	Key release	1	1	30	XB6AS9345B [2]	

Table 19.31: Circular Legends, 45 mm

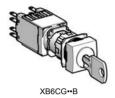
•			
Description	Color	Text	Catalog Number
Circular lamanda 45 mm	V II	Blank	ZB6Y7001
Circular legends, 45 mm	Yellow	Emergency stop	ZB6Y7330

For Legends, see XB6 Legend Plates and Legends, page 19-21



XB6AD•••B







XB6AG •• B

Table 19.32: Selector Switches (Switching Angle: Handle: 60) Complete Units with **Quick Connectors/Solder Tabs**

Type of Opera- tor	Type of	Contact	Number and Type of Positions		Rectangular	Square	Round
	N.O.	N.C.				Catalog Number	
	1	_	2- maintained		XB6DD221B	XB6CD221B	XB6AD221B
Handle	Handle ₄	1	2- maintained		XB6DD225B	XB6CD225B	XB6AD225B
	'	3- maintained	\Rightarrow	XB6DD235B	XB6CD235B	XB6AD235B	
	2	_	3- maintained	\rightarrow	XB6DD233B	XB6CD233B	XB6AD233B

Table 19.33: Selector Switches (Switching Angle: Key: 70°) Complete Units with **Quick Connectors/Solder Tabs**

Type of Operator	Type of	Contact	Number and Type of Positions		Rectangular	O Square	Round
	N.O.	N.C.				Catalog Number	
		2- maintained	8	XB6DGC5B	XB6CGC5B	XB6AGC5B	
Key	1 1 Kev	1	2- maintained	8	XB6DGB5B	XB6CGB5B	XB6AGB5B
		3- maintained		XB6DGH5B	XB6CGH5B	XB6AGH5B	
	2	_	3- maintained	N _B	XB6DGH3B	XB6CGH3B	XB6AGH3B

NOTE: The symbol Ω indicates key withdrawal position(s).

Table 19.34: Selector Switch Sequence

	2 Position Selector Switch						
•	Contact block guide [3]						
0	χ 1 N.O. (left or right)						
X	0	1 N.C. (left or right)					
0	X	1 N.O.					
		and					
X	0	1 N.C.					

3 Position Selector Switch						
•	1	•	Contact block guide [3]			
0	0	X	1 N.O. (left)			
X	0	X	2 N.O. wired in parallel (side by side)			
X	0	0	1 N.O. (right)			
0	X	X	1 N.C. (right)			
X	X	0	1 N.C. (left)			
0	Х	0	2 N.C. wired in series (side by side)			

For Legends, see Legend Plates and Legends, page 19-21



XB6 Electrical Components

Refer to Catalog DIA5ED2130406EN



XB6 Electrical Components

Table 19.35: Contact Blocks and Light Modules for Illuminated Push Buttons [4]

Description	Supply	Type of	Contact	Color of	Catalog Number
Description	Voltage	N.O.	N.C.	Light Source	Catalog Number
Quick connectors/solder tabs					
				White	ZB6ZB11B
		1		Green	ZB6ZB31B
		'	_	Yellow	ZB6ZB51B
				Blue	ZB6ZB61B
	12–24 Vac/		1	Red	ZB6ZB42B
	Vdc		'	Yellow	ZB6ZB52B
	Vuc			White	ZB6ZB15B
			1	Green	ZB6ZB35B
		1		Red	ZB6ZB45B
				Yellow	ZB6ZB55B
Integral LED [5]				Blue	ZB6ZB65B
integral LLD [o]		1	_	White	ZB6ZG11B
				Green	ZB6ZG31B
				Yellow	ZB6ZG51B
				Blue	ZB6ZG61B
			1	Red	ZB6ZG42B
	120 Vac		'	Yellow	ZB6ZG52B
				White	ZB6ZG15B
				Green	ZB6ZG35B
		1	1	Red	ZB6ZG45B
				Yellow	ZB6ZG55B
				Blue	ZB6ZG65B
Direct for incandescent bulb		1	_	_	ZB6ZH01B
(not included) [6]	< 24 Vac/Vdc	_	1	_	ZB6ZH02B
(not moladed) [0]		1	1	_	ZB6ZH05B







Description	Type of	Catalog Number	
Description	N.O.	N.C.	Catalog Nulliber
Quick connectors/solder tabs			
	1	_	ZB6Z1B
	_	1	ZB6Z2B
Contact blocks with mounting base	2	_	ZB6Z3B
	_	2	ZB6Z4B
	1	1	ZB6Z5B





Table 19.37: Light Modules for Pilot Lights

Description	Supply Voltage	Color of Light Source	Catalog Number
Quick connectors/solder tabs [7]		•	
		White	ZB6EB1B
Integral LED [8]		Green	ZB6EB3B
	12-24 Vac/Vdc	Red	ZB6EB4B
		Yellow	ZB6EB5B
		Blue	ZB6EB6B
	120 Vac	White	ZB6EG1B
		Green	ZB6EG3B
		Red	ZB6EG4B
		Yellow	ZB6EG5B
		Blue	ZB6EG6B
With resistor for 95 V neon bulb	110 Vac	_	ZB6EG0B
(not included) [6] [9]	230 Vac	_	ZB6EM0B
Direct supply for 0.6 W max. incandescent bulb (not included) [6]	< 24 Vac/Vdc	_	ZB6EH0B









Table 19.38: Separate Contact Blocks (Maximum of 3 contacts per mounting base.)

	•		•	
Contact Material	For use with mounting base	Type of	Catalog Number	
Contact Material	1 of use with mounting base	N.O.	N.C.	Oatalog Hulliber
Cityon elley		1	_	ZB6E1B
Silver alloy	Quick connectors/solder tabs	_	1	ZB6E2B
Gold flashed Quick connectors/solder tabs		1	_	ZB6E1E
Gold flashed	Quick connectors/solder tabs	_	1	7B6F2F

Table 19.39: Accessories for Printed Circuit Board Installations

Desc	cription	for use with	Catalog Number
Plug-	in Socket Adapter	contact blocks and light modules	ZB6Y010
Body	Bracket	plug-in socket adapter	ZB6Y011

^[4] Illuminated selector switches can be assembled by using a contact block/light module assembly in conjunction with a selector switch head, supplied without handle, and a transparent handle. See XB6 Illuminated Operators, page 19-16.

The LED must be the same color as the push button cap.

Order bulbs separately. See Additional XB6 Accessories, page 19-20. [6]

^[7] Electrical components with connection by printed circuit board pins are available. See Additional XB6 Accessories, page 19-20. [8]

The LED must be the same color as the lens.

Neon bulb can only be used with a red, yellow, or white cap.

XB6 Illuminated Operators

Refer to Catalog DIA5ED2130406EN



ZB6DW•

ZB6CE



XB6 Illuminated Operators

Table 19.40: Heads for Illuminated Push Buttons[10]

Type of Push	Color			
Type of Fusil	00.01	Rectangular	Square	Round
			Catalog Number	
	White	ZB6DW1	ZB6CW1	ZB6AW1
	Green	ZB6DW3	ZB6CW3	ZB6AW3
Flueb envise veture	Red	ZB6DW4	ZB6CW4	ZB6AW4
Flush, spring return	Yellow	ZB6DW5	ZB6CW5	ZB6AW5
	Blue	ZB6DW6	ZB6CW6	ZB6AW6
	5 colors [11]	ZB6DW9	ZB6CW9	ZB6AW9
	White	ZB6DF1	ZB6CF1	ZB6AF1
	Green	ZB6DF3	ZB6CF3	ZB6AF3
Flush, maintained	Red	ZB6DF4	ZB6CF4	ZB6AF4
Flush, maintained	Yellow	ZB6DF5	ZB6CF5	ZB6AF5
	Blue	ZB6DF6	ZB6CF6	ZB6AF6
	5 colors [11]	ZB6DF9	ZB6CF9	ZB6AF9
	White	ZB6DE1	ZB6CE1	ZB6AE1
Extended, spring return	Green	ZB6DE3	ZB6CE3	ZB6AE3
	Red	ZB6DE4	ZB6CE4	ZB6AE4
Exterided, Spring return	Yellow	ZB6DE5	ZB6CE5	ZB6AE5
	Blue	ZB6DE6	ZB6CE6	ZB6AE6
	5 colors[11]	ZB6DE9	ZB6CE9	ZB6AE9



ZB6DV





Table 19.41: Heads for Pilot Lights [10]

Color	Rectangular	Square Catalog Number	Round
White	ZB6DV1	ZB6CV1	ZB6AV1
Green	ZB6DV3	ZB6CV3	ZB6AV3
Red	ZB6DV4	ZB6CV4	ZB6AV4
Yellow	ZB6DV5	ZB6CV5	ZB6AV5
Blue	ZB6DV6	ZB6CV6	ZB6AV6
5 colors [11]	ZB6DV9	ZB6CV9	ZB6AV9

For legends, see Legend Plates and Legends, page 19-21

XB6 Non-Illuminated Operators

Table 19.42: Heads for Push Buttons [12]







Type of Push	Color			
1,500 011 0011		Rectangular	Square	Round
			Catalog Number	
	White	ZB6DA1	ZB6CA1	ZB6AA1
	Black	ZB6DA2	ZB6CA2	ZB6AA2
	Green	ZB6DA3	ZB6CA3	ZB6AA3
Flush, spring return	Red	ZB6DA4	ZB6CA4	ZB6AA4
	Yellow	ZB6DA5	ZB6CA5	ZB6AA5
	Blue	ZB6DA6	ZB6CA6	ZB6AA6
	6 colors[13]	ZB6DA9	ZB6CA9	ZB6AA9





Table 19.43: Mushroom Heads for Trigger Action Push Buttons (30 mm)[14]

		•	•
Shape of Head	Type of Push	Cap Color	Catalog Number
	Turn-to-release	Red	ZB6AS834
	Key release	Red	ZB6AS934 [15]



Description	Color	Text	Catalog Number
Circular legends, 45 mm	V-II	Blank	ZB6Y7001
	Yellow	Emergency stop	ZB6Y7330

ZB6Y7330

To combine with light modules, see XB6 Electrical Components.

^[11] Six different color caps included with head (white, black, green, red, yellow, and blue).

^[12] To combine with complete bodies and contact blocks, see XB6 Electrical Components, page 19-15 Six different color caps included with head (white, black, green, red, yellow, and blue).

^[13]

^[14] Complies with ISO 13850 standards for Emergency Stop push buttons when used with circular Legend Plate ZB6Y7330

^[15]

ZB6DD••



XB6 Selector Switches

Refer to Catalog DIA5ED2130406EN

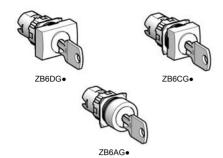


XB6 Non-Illuminated Selector Switches

Table 19.45: Heads for Non-Illuminated Selector Switches [16][17] (To combine with complete bodies and contact blocks, see XB6 Electrical Components, page 19-15.)

Number and Type of Positions		Color of Handle	Rectangular	Square Catalog Number	Round
Switching angle: maintained	positions 6	0°, spring re	eturn positions 45°		
2-maintained	\vee	Black	ZB6DD22	ZB6CD22	ZB6AD22
2-maintained	\vee	Black	ZB6DD28 [18]	ZB6CD28 [18]	ZB6AD28 [18]
3-maintained	\forall	Black	ZB6DD23	ZB6CD23	ZB6AD23
2-spring return to center	D	Black	ZB6DD24	ZB6CD24	ZB6AD24
3-spring return to center	\Diamond	Black	ZB6DD25	ZB6CD25	ZB6AD25
3-spring return from right to center	\Rightarrow	Black	ZB6DD26	ZB6CD26	ZB6AD26
3-spring return from left to center	\forall	Black	ZB6DD27	ZB6CD27	ZB6AD27

Legends: Legend Plates and Legends, page 19-21



XB6 Keyed Selector Switches

Table 19.46: Heads for Ronis Key Operated Selector Switches [19] (To combine with complete bodies and contact blocks, see XB6 Electrical Components, page 19-15.)

Number and Type of Positions		Key Withdrawal		Square Catalog Numbe	Round r
Switching angle: maintained pos	itions 70°	, spring return positio	ns 45°		
	P	Right-hand position	ZB6DGA	ZB6CGA	ZB6AGA
2-maintained	8	Center position	ZB6DGB	ZB6CGB	ZB6AGB
	3	Both positions	ZB6DGC	ZB6CGC	ZB6AGC
2-spring return from right to center	\$	Center position	ZB6DGL	ZB6CGL	ZB6AGL
	₩	Left-hand position	ZB6DGD	ZB6CGD	ZB6AGD
	\$	Center position	ZB6DGE	ZB6CGE	ZB6AGE
	Ø₽.	Left-hand and center positions	ZB6DGF	ZB6CGF	ZB6AGF
3-maintained	\bigvee	Right-hand position	ZB6DGG	ZB6CGG	ZB6AGG
	S. S	All 3 positions	ZB6DGH	ZB6CGH	ZB6AGH
	₩	Left-hand and right- hand positions	ZB6DGJ	ZB6CGJ	ZB6AGJ
	A S	Right-hand and center positions	ZB6DGK	ZB6CGK	ZB6AGK
	\\	Left-hand position	ZB6DGQ	ZB6CGQ	ZB6AGQ
3-spring return from right to center		Center position	ZB6DGR	ZB6CGR	ZB6AGR
		Left-hand and center positions	ZB6DGS	ZB6CGS	ZB6AGS
3-spring return to center		Center position	ZB6DGT	ZB6CGT	ZB6AGT

Table 19.47: Selector Switch Sequence (using contact block assemblies, see XB6 Flectrical Components, page 19-15)

(using contact block	(using contact block assemblies, see Abo Electrical Components, page 15-16)				
	2 Position Selector Switch				
•	•	Contact block guide [20]			
0	X	1 N.O. (left or right)			
X	0	1 N.C. (left or right)			
0	X	1 N.O.			
X	0	and 1 N.C.			

3 Position Selector Switch						
•	•	•	Contact block guide [20]			
0	0	X	1 N.O. (left)			
X	0	X	2 N.O. wired in parallel (side by side)			
X	0	0	1 N.O. (right)			
0	Х	X	1 N.C. (right)			
X	X	0	1 N.C. (left)			
0	X	0	2 N.C. wired in series (side by side)			

For legends, see Legend Plates and Legends, page 19-21



XB6 Accessories Refer to Catalog DIA5ED2130406EN

XB6 Push Button Caps

Table 19.48: Push Button Caps—Marked







ZB6YD•10

ZB6YC•10

ZB6YA•10



ZB6YD•17



ZB6YD•19



ZB6YC•19



ZB6YA•19

Ink Marking Color: White on colored cap	Color			
Black on white cap		Rectangular	Square	Round
or non-illuminated push butto			Catalog Number	
r non-illuminated push butti		700/0400	700/0400	700/4400
0	White Black	ZB6YD100 ZB6YD200	ZB6YC100 ZB6YC200	ZB6YA100 ZB6YA200
	White	ZB6YD101	ZB6YC101	ZB6YA101
1	Black	ZB6YD201	ZB6YC201	ZB6YA201
_	White	ZB6YD102	ZB6YC102	ZB6YA102
2	Black	ZB6YD202	ZB6YC202	ZB6YA202
3	White	ZB6YD103	ZB6YC103	ZB6YA103
3	Black	ZB6YD203	ZB6YC203	ZB6YA203
4	White	ZB6YD104	ZB6YC104	ZB6YA104
•	Black	ZB6YD204	ZB6YC204	ZB6YA204
5	White Black	ZB6YD105 ZB6YD205	ZB6YC105 ZB6YC205	ZB6YA105 ZB6YA205
	White	ZB6YD106	ZB6YC106	ZB6YA106
6	Black	ZB6YD206	ZB6YC206	ZB6YA206
_	White	ZB6YD107	ZB6YC107	ZB6YA107
7	Black	ZB6YD207	ZB6YC207	ZB6YA207
8	White	ZB6YD108	ZB6YC108	ZB6YA108
0	Black	ZB6YD208	ZB6YC208	ZB6YA208
9	White	ZB6YD109	ZB6YC109	ZB6YA109
-	Black	ZB6YD209	ZB6YC209	ZB6YA209
ON	White	ZB6YD117	ZB6YC117	ZB6YA117
	Green Black	ZB6YD317 ZB6YD224	ZB6YC317 ZB6YC224	ZB6YA317 ZB6YA224
OFF	Red	ZB6YD424	ZB6YC424	ZB6YA424
	White	ZB6YD111	ZB6YC111	ZB6YA111
ı	Green	ZB6YD311	ZB6YC311	ZB6YA31
0	Black	ZB6YD210	ZB6YC210	ZB6YA210
0	Red	ZB6YD410	ZB6YC410	ZB6YA410
R	Black	ZB6YD226	ZB6YC226	ZB6YA226
	Blue	ZB6YD626	ZB6YC626	ZB6YA626
START	White	ZB6YD140	ZB6YC140	ZB6YA140
	Green Black	ZB6YD340 ZB6YD241	ZB6YC340 ZB6YC241	ZB6YA340 ZB6YA24
STOP	Red	ZB6YD441	ZB6YC441	ZB6YA44
	White	ZB6YD112	ZB6YC112	ZB6YA112
II	Black	ZB6YD212	ZB6YC212	ZB6YA212
III	White	ZB6YD113	ZB6YC113	ZB6YA113
III	Black	ZB6YD213	ZB6YC213	ZB6YA213
+	White	ZB6YD114	ZB6YC114	ZB6YA114
	Black	ZB6YD214	ZB6YC214	ZB6YA214
-	White	ZB6YD115	ZB6YC115	ZB6YA115
	Black White	ZB6YD215 ZB6YD127	ZB6YC215 ZB6YC127	ZB6YA215 ZB6YA127
UP	Black	ZB6YD227	ZB6YC227	ZB6YA227
= =	White	ZB6YD128	ZB6YC128	ZB6YA128
DOWN	Black	ZB6YD228	ZB6YC228	ZB6YA228
CLOSE	White	ZB6YD132	ZB6YC132	ZB6YA132
CLUSE	Black	ZB6YD232	ZB6YC232	ZB6YA232
•	White	ZB6YD119	ZB6YC119	ZB6YA119
•	Black	ZB6YD219	ZB6YC219	ZB6YA219
. ↓	White	ZB6YD120	ZB6YC120	ZB6YA120
▼	Black	ZB6YD220	ZB6YC220	ZB6YA220
→	White Black	ZB6YD121 ZB6YD221	ZB6YC121 ZB6YC221	ZB6YA121 ZB6YA221
4	White	ZB6YD122	ZB6YC122	ZB6YA122
-	Black	ZB6YD222	ZB6YC222	ZB6YA222

XB6 Accessories

Refer to Catalog DIA5ED2130406EN



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ZB6Y905







ZB6Y001



ZD01000



ZB6Y007



ZB6YA001





ZB6Y010





Additional XB6 Accessories

Table 19.49: Accessories

Description	Application	Catalog Number
Body	Fitting contact blocks	ZB6Y009
Bezel tightening tool + bulb extractor	Fixing the switch and changing bulbs	ZB6Y905
Three piece tool kit	_	ZB6Y019
Nut	Fixing head to panel	ZB6Y002
Adaptor	Flush mounting a circular head push button or pilot light in Ø 22 mm cut-out	ZB6YA002
Shroud	Protecting contacts against touching	ZB6Y001
Protective cover	Circular and square head push buttons and switches	ZB6YA001
. 10.000.10 0010.	Rectangular head push buttons and switches	ZB6YD001
Female Quick connector/Solder tab	Sold in lots of 100 pieces	ZB6Y004
Blanking plug	Plugging an unused knockout	ZB6Y005
Ronis key, 2 pieces	Key operated selector switches and emergency stop mushroom	ZB6Y007
	6 V	ZB6YA006
Incandescent bulbs, bayonet T1 1/4	12 V	ZB6YJ012
•	28 V[21]	ZB6YB028
Neon bulbs	110/230 V [22]	ZB6YG095

Table 19.50: Accessories for Printed Circuit Board Installations

Description	for use with	Catalog Number		
Plug-in Socket Adapter	contact blocks and light modules	ZB6Y010		
Body Bracket	plug-in socket adapter	ZB6Y011		

XB6E Monolithic Push Buttons







XB6 Legend Plates and Legends

Table 19.51: Standard Legend Plate (24 X 28 mm) for 8 X 21 mm Legend [23]

	,	
Description	Background Color of Legend	Catalog Number
Without legend insert	_	ZB6YD20
With blank legend insert	White or yellow	ZB6YD21
With blank legend insert	Black or red	ZB6YD22

Table 19.52: 8 x 21 mm Marked Legends (for 24 x 28 mm legend holder ZB6YD20) [23]

Color	Ma	Marking	
		O-I	ZB6Y2178
	International	1-11	ZB6Y2179
	International	I-O-II	ZB6Y2186
White Text		0	ZB6Y2190
		HAND-O-AUTO	ZB6Y2387
		CLOSE	ZB6Y2314
		DOWN	ZB6Y2308
		FORWARD	ZB6Y2305
		FAULT	ZB6Y2334
Red Background (Stop and Fault) Black Background (all others)		LEFT	ZB6Y2310
Black Background (all others)		OFF	ZB6Y2312
	English	ON	ZB6Y2303
		OPEN	ZB6Y2313
		RESET	ZB6Y2323
		REVERSE	ZB6Y2306
		RIGHT	ZB6Y2309
		RUN	ZB6Y2311
		STOP	ZB6Y2304
		UP	ZB6Y2307

Table 19.53: Circular Legends, 45 mm

Description	Color	Text	Catalog Number
Circular legends, 45 mm		Blank	ZB6Y7001
SUS ADMOSTITE	Yellow	Emergency stop	ZB6Y7330



XB6E Flush, Spring Return Push Buttons

Table 19.54: Push Buttons, Flush, Spring Return

10016 13.34.	·	riusii, spiilig Ki	starri	
Shape of head	Type of contacts —	Color	Sold in lots of	Catalog Number
Shape of head		Color	Sold in lots of	Catalog Number
		White	5	XB6EAA11P
		Black	5	XB6EAA21P
		Green	5	XB6EAA31P
	1	Red	5	XB6EAA41P
		Yellow	5	XB6EAA51P
()		Blue	5	XB6EAA61P
		White	5	XB6EAA12P
Circular		Black	5	XB6EAA22P
		Green	5	XB6EAA32P
	2	Red	5	XB6EAA42P
		Yellow	5	XB6EAA52P
		Blue	5	XB6EAA62P
		White	5	XB6ECA11P
		Black	5	XB6ECA21P
		Green	5	XB6ECA31P
	1	Red	5	XB6ECA41P
		Yellow	5	XB6ECA51P
		Blue	5	XB6ECA61P
		White	5	XB6ECA12P
Square		Black	5	XB6ECA22P
	_	Green	5	XB6ECA32P
	2	Red	5	XB6ECA42P
		Yellow	5	XB6ECA52P
		Blue	5	XB6ECA62P
		White	5	XB6EDA11P
		Black	5	XB6EDA21P
	4	Green	5	XB6EDA31P
	1	Red	5	XB6EDA41P
		Yellow	5	XB6EDA51P
		Blue	5	XB6EDA61P
Destangular	-	White	5	XB6EDA12P
Rectangular		Black	5	XB6EDA22P
	2	Green	5	XB6EDA32P
	4	Red	5	XB6EDA42P
		Yellow	5	XB6EDA52P
		Blue	5	XB6EDA62P





XB6ECA••P



[23] Additional legend plate sizes and markings are available in Catalog 9001CT1102.





XB6ECV●●P



XB6EDV●●P

Shape of	Color	Sold in lots of	Catalog	Number
head	COIOI	3014 111 1015 01	With 12 V LED	With 24 V LED
	White	5	XB6EAV1JP	XB6EAV1BP
	Green	5	XB6EAV3JP	XB6EAV3BP
	Red	5	XB6EAV4JP	XB6EAV4BP
	Yellow	5	XB6EAV5JP	XB6EAV5BP
Circular	Blue	5	XB6EAV6JP	XB6EAV6BP
	Orange	5	XB6EAV8JP	XB6EAV8BP
	White	5	XB6ECV1JP	XB6ECV1BP
	Green	5	XB6ECV3JP	XB6ECV3BP
	Red	5	XB6ECV4JP	XB6ECV4BP
	Yellow	5	XB6ECV5JP	XB6ECV5BP
Square	Blue	5	XB6ECV6JP	XB6ECV6BP
	Orange	5	XB6ECV8JP	XB6ECV8BP
	White	5	XB6EDV1JP	XB6EDV1BP
	Green	5	XB6EDV3JP	XB6EDV3BP
	Red	5	XB6EDV4JP	XB6EDV4BP
	Yellow	5	XB6EDV5JP	XB6EDV5BP
ectangular	Blue	5	XB6EDV6JP	XB6EDV6BP
	Orange	5	XB6EDV8JP	XB6EDV8BP

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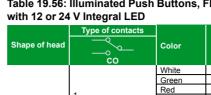
XB6E Monolithic Push Buttons

Refer to Catalog DIA5ED2130406EN



XB6E Illuminated Push Buttons, Spring Return

Table 19.56: Illuminated Push Buttons, Flush, Spring Return,



.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
Shape of head		Color	Sold in lots of	With 12 V LED	With 24 V LED	
		White	5	XB6EAW1J1P	XB6EAW1B1P	
		Green	5	XB6EAW3J1P	XB6EAW3B1P	
		Red	5	XB6EAW4J1P	XB6EAW4B1P	
	1	Yellow	5	XB6EAW5J1P	XB6EAW5B1P	
		Blue	5	XB6EAW6J1P	XB6EAW6B1P	
		Orange	5	XB6EAW8J1P	XB6EAW8B1P	
		White	5	XB6EAW1J2P	XB6EAW1B2P	
Circular		Green	5	XB6EAW3J2P	XB6EAW3B2P	
		Red	5	XB6EAW4J2P	XB6EAW4B2P	
	2	Yellow	5	XB6EAW5J2P	XB6EAW5B2P	
		Blue	5	XB6EAW6J2P	XB6EAW6B2P	
		Orange	5	XB6EAW8J2P	XB6EAW8B2P	
		White	5	XB6ECW1J1P	XB6ECW1B1P	
		Green	5	XB6ECW3J1P	XB6ECW3B1P	
		Red	5	XB6ECW4J1P	XB6ECW4B1P	
	1	Yellow	5	XB6ECW5J1P	XB6ECW5B1P	
		Blue	5	XB6ECW6J1P	XB6ECW6B1P	
		Orange	5	XB6ECW8J1P	XB6ECW8B1P	
Caucas		White	5	XB6ECW1J2P	XB6ECW1B2P	
Square		Green	5	XB6ECW3J2P	XB6ECW3B2P	
		Red	5	XB6ECW4J2P	XB6ECW4B2P	
	2	Yellow	5	XB6ECW5J2P	XB6ECW5B2P	
		Blue	5	XB6ECW6J2P	XB6ECW6B2P	
		Orange	5	XB6ECW8J2P	XB6ECW8B2P	
		White	5	XB6EDW1J1P	XB6EDW1B1P	
		Green	5	XB6EDW3J1P	XB6EDW3B1P	
	_	Red	5	XB6EDW4J1P	XB6EDW4B1P	
	1	Yellow	5	XB6EDW5J1P	XB6EDW5B1P	
		Blue	5	XB6EDW6J1P	XB6EDW6B1P	
		Orange	5	XB6EDW8J1P	XB6EDW8B1P	
Rectangular		White	5	XB6EDW1J2P	XB6EDW1B2P	
Rectangular		Green	5	XB6EDW3J2P	XB6EDW3B2P	
	2	Red	5	XB6EDW4J2P	XB6EDW4B2P	
	2	Yellow	5	XB6EDW5J2P	XB6EDW5B2P	
		Blue	5	XB6EDW6J2P	XB6EDW6B2P	

XB6EDW8J2P

XB6EDW8B2P



XB6ECW•●F





XB6E Illuminated Push Buttons, Latching

Table 19.57: Illuminated Push Buttons, Flush, Latching, with 12 or 24 V Integral LED

Orange







XB6ECF●●P



XV6EDF●●P

XB6E Monolithic Push Buttons

Refer to Catalog DIA5ED2130406EN











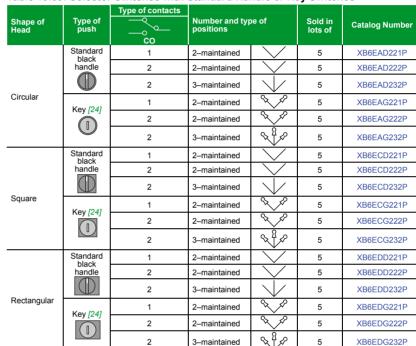
Table 19.58: Emergency Stop Mushroom Head Push Button

		Type of Contacts		Catalog Number	
Shape of Head	Type of Push	N. C.	Sold in lots of	With 12 V LED	With 24 V LED
Illuminated	•	•			
Circular, Ø 32 mm /1.260 in.	Trigger action, turn to release, pull to release	2	5	XB6ETI522P	XB6ETI523P
Non-Illuminated		•			
Circular, Ø 32 mm /1.260 in.	Trigger action, turn to release, pull to release	2	5	XB6ETN521P	_



XB6E Selector Switches

Table 19.59: Selector Switches with Standard Handle or Key Switches









XB6ECG•••P



XB6EDD•●●P



XB6EDG•••P



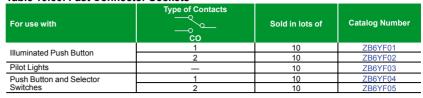
XB4 Complete Devices

Refer to Catalog DIA5ED2121212EN



XB6E Accessories

Table 19.60: Fast Connector Sockets





For use with	For use with	Sold in lots of	Catalog Number
Bezel Tightening tool + Bulb Extractor	Tightening and slackening the bezel changing	2	ZB6Y905
Protective Covers	Circle or square push buttons	1	ZB6YA001
Protective Covers	Rectangular push buttons	1	ZB6YD001
Blanking Plug	_	10	ZB6Y005

Table 19.62: Legends for Emergency Stop Mushroom Head Push Buttons

Shape	Color	Marking	Sold in lots of	Catalog Number
Circular	Yellow	EMERGENCY STOP	10	ZB6Y56





ZB6YA●●



ZB6YD••

ZB6Y005



XB4 Complete Devices—Non-Illuminated

Table 19.63: Non-Illuminated Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of Push	Type of Contact		Marking	Cap	Catalog	Components
Head	Pusn	N.O.	N.C.	Ĭ	Color	Number	•
					Black	XB4BA21	(ZB4BZ101 + ZB4BA2)
		1			Green	XB4BA31	(ZB4BZ101 + ZB4BA3)
		'	_	_	Yellow	XB4BA51	(ZB4BZ101 + ZB4BA5)
20.00000					Blue	XB4BA61	(ZB4BZ101 + ZB4BA6)
	Flush	-	1	_	Red	XB4BA42	(ZB4BZ102 + ZB4BA4)
	FluSII			_	Black	XB4BA25	(ZB4BZ105 + ZB4BA2)
					Green	XB4BA35	(ZB4BZ105 + ZB4BA3)
		1	1		Red	XB4BA45	(ZB4BZ105 + ZB4BA4)
					Yellow	XB4BA55	(ZB4BZ105 + ZB4BA5)
					Blue	XB4BA65	(ZB4BZ105 + ZB4BA6)
	Flush	1	_	"I" (white)	Green	XB4BA3311	(ZB4BZ101 + ZB4BA331)
	Flush	_	1	"O" (white)	Red	XB4BA4322	(ZB4BZ102 + ZB4BA432)
	Flush with				Black	XB4BP21	(ZB4BZ101 + ZB4BP2)
	clear silicone				Green	XB4BP31	(ZB4BZ101 + ZB4BP3)
(())	boot (color of	1	_	_	Yellow	XB4BP51	(ZB4BZ101 + ZB4BP5)
	pusher				Blue	XB4BP61	(ZB4BZ101 + ZB4BP6)
	unobscured)	-	1	_	Red	XB4BP42	(ZB4BZ102 + ZB4BP4)
		ı	1	_	Red	XB4BL42	(ZB4BZ102 + ZB4BL4)
	Extended	1	1	_	Red	XB4BL45	(ZB4BZ105 + ZB4BL4)
	Mushroom head Ø 40 mm	1	_	_	Black	XB4BC21	(ZB4BZ101 + ZB4BC2)

XB4 Complete Devices

Refer to Catalog DIA5ED2121212EN





XB4BL73415



XB4BL73731●5



XB4BA731327



Shape of	Type of	Type of Contact		Marking	Degree of	Catalog	Components
Head	Push	N.O.	N.C.	warking	Protection	Number	Components
	One flush green push* One extended red push**	1	1	*"I" (white) **"O" (white)	IP66 IP69K	XB4BL73415	(ZB4BZ105 + ZB4BL7341)

Table 19.65: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)

Shape of	Type of Type of Contact Marking Degree of			Pilot Light	Catalog Number		
Head	Push	N.O.	N.C.		Protection	Voltage	Julianog Humao.
Protected. LED	One flush green push* One extended red push** One white central pilot light block	1	1	*"I" (white) **"O" (white)	IP66 IP69K	24 120 240	XB4BW73731B5 XB4BW73731G5 XB4BW73731M5

Table 19.66: Three Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Shape of Type of		Type of Contact		Marking and Can Calar	Catalog
Head	Push	N.O.	N.C.	Protec- tion	Marking and Cap Color	Number
	Two flush pushes + one central			IP66	White "I" on green background White "II" on green background *White "Stop" on red background	XB4BA731327
	projecting red push*	2	1	IP69K	Black "→" on white background White "⇔" on black background *White "Stop" on red background	XB4BA711237

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41 and XB4 Legend Sheets, page 19-42.

For Caps, refer to XB4 Accessories, page 19-42.



XB4BT845



XB4BS9445



XB4BS542



XB4BG33



XB4BD33



XB4BJ33

Table 19.67: Non-Illuminated Trigger Action Emergency Stop Push Buttons, Ø 40 mm, Red (screw clamp terminal connections)

Shape	Time of Buch	Type of Contact		Catalog	Commonante
of Head	Type of Push	N.O.	N.C.	Number	Components
0	Trigger action push-pull [1]	1	1	XB4BT845	(ZB4BZ105 + ZB4BT84)
	Trigger action	1	1	XB4BS8445	(ZB4BZ105 + ZB4BS844)
	turn-to-release[1]	1	2	XB4BS84441	(ZB4BZ141 + ZB4BS844)
	Trigger action Key release [1] (No. 455)	1	1	XB4BS9445	(ZB4BZ105 + ZB4BS944)
0	Trigger action Push-pull[1]	ı	1	XB4BT842	(ZB4BZ105 + ZB4BT84)
	Trigger action Turn-to-release[1]	ı	1	XB4BS8442	(ZB4BZ102 + ZB4BS844)
0	Trigger action Key release [1] (No. 455)	_	1	XB4BS9442	(ZB4BZ102 + ZB4BS944)

Table 19.68: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [2]

Shape			Contact	Number and	Number and Type of		Commonanto
of Head	Type of Operator	N.O.	N.C.		Positions		Components
		1	-	2-maintained	\vee	XB4BD21	(ZB4BZ101 + ZB4BD2)
	Standard lever,	1	1	2-maintained	\vee	XB4BD25	(ZB4BZ105 + ZB4BD2)
	black	2	-	3-maintained	\leftarrow	XB4BD33	(ZB4BZ103 + ZB4BD3)
				3-momentary to center	\Leftrightarrow	XB4BD53	(ZB4BZ103 + ZB4BD5)
	Extended lever, black	1	_	2-maintained	\langle	XB4BJ21	(ZB4BZ101 + ZB4BJ2)
4		2	_	3-maintained	\leftarrow	XB4BJ33	(ZB4BZ103 + ZB4BJ3)
-				3-momentary to center	\Diamond	XB4BJ53	(ZB4BZ103 + ZB4BJ5)
				0	\checkmark	XB4BG21	(ZB4BZ101 + ZB4BG2)
	Key (No. 455)	1	_	2-maintained	N/P	XB4BG41	(ZB4BZ101 + ZB4BG4)
				2-momentary to left	\checkmark	XB4BG61	(ZB4BZ101 + ZB4BG6)

^[1] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).

^[2] For contact configurations, see Table 19.82 Sequence of Contacts on Selector Switch Bodies, page 19-32.



XB4 Complete Devices

Refer to Catalog **DIA5ED2121212EN**

Table 19.68 Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) [19.68] (cont'd.)

Shape		Type of	Contact	Number and Type of Positions		Catalog	Components
of Head	Type of Operator	N.O.	N.C.			Number	
		,		0	₩	XB4BG03	(ZB4BZ103 + ZB4BG0)
		2	_	3-maintained	₹	XB4BG33	(ZB4BZ103 + ZB4BG3)

NOTE: The symbol Ω indicates key withdrawal position(s).

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41 and XB4 Legend Sheets, page 19-42.



XB4 Complete Devices—Illuminated

Table 19.69: Pilot Lights with Protected LED™ (screw clamp terminal connections) [3]

s	hape of Head	Supply Voltage Color		Catalog Number	Components
			White	XB4BVB1	(ZB4BVB1 + ZB4BV013)
	i	24 Vac/Vdc	Green	XB4BVB3	(ZB4BVB3 + ZB4BV033)
			Red	XB4BVB4	(ZB4BVB4 + ZB4BV043)
	Protected		Yellow	XB4BVB5	(ZB4BVB5 + ZB4BV053)
	Protecto		Blue	XB4BVB6	(ZB4BVB6 + ZB4BV063)
	」「ヒレ		White	XB4BVG1	(ZB4BVG1 + ZB4BV013)
		ĺ	Green	XB4BVG3	(ZB4BVG3 + ZB4BV033)
		110–120 Vac	Red	XB4BVG4	(ZB4BVG4 + ZB4BV043)
	i		Yellow	XB4BVG5	(ZB4BVG5 + ZB4BV053)
		1	Blue	XB4BVG6	(ZB4BVG6 + ZB4BV063)



Shape of Head	Supply Voltage	Color	Catalog Number	Components						
Direct supply, for BA9s (incandescent, LED, neon) V < 250 V, 2.4 W bulb (bulb not included)										
		White	XB4BV61	(ZB4BV6 + ZB4BV01)						
	< 250 Vac/Vdc	Green	XB4BV63	(ZB4BV6 + ZB4BV03)						
	< 250 Vac/Vdc	Red	XB4BV64	(ZB4BV6 + ZB4BV04)						
		Yellow	XB4BV65	(ZB4BV6 + ZB4BV05)						
Transformer type with 1.2 VA	A, 6 V secondary. BA9s	incandescent bulb	included							
		White	XB4BV31	(ZB4BV3 + ZB4BV01)						
	110-120 Vac	Green	XB4BV33	(ZB4BV3 + ZB4BV03)						
	50/60 Hz	Red	XB4BV34	(ZB4BV3 + ZB4BV04)						
		Yellow	XB4BV35	(ZB4BV3 + ZB4BV05)						

Table 19.71: Illuminated Push Buttons, Momentary (screw clamp terminal connections) $\[\]$

Shape	Description	Type Con	e of tact	Supply	Color	Catalog	Components
of Head	2000.191.011	N.O.	N.C.	Voltage	of Push	Number	
Flush							
					White	XB4BW31B5	(ZB4BW0B15 + ZB4BW313)
					Green	XB4BW33B5	(ZB4BW0B35 + ZB4BW333)
				24 Vac/Vdc	Red	XB4BW34B5	(ZB4BW0B45 + ZB4BW343)
70	cted				Yellow	XB4BW35B5	(ZB4BW0B55 + ZB4BW353)
	protected	1	1		Blue	XB4BW36B5	(ZB4BW0B65 + ZB4BW363)
	IED	'	'		White	XB4BW31G5	(ZB4BW0G15 + ZB4BW313)
					Green	XB4BW33G5	(ZB4BW0G35 + ZB4BW333)
				110–120 Vac	Red	XB4BW34G5	(ZB4BW0G45 + ZB4BW343)
				vac	Yellow	XB4BW35G5	(ZB4BW0G55 + ZB4BW353)
					Blue	XB4BW36G5	(ZB4BW0G65 + ZB4BW363)
Par Dati	Direct supply for BA9s 2.4 W max. bulb not included				White	XB4BW3165	(ZB4BW065 + ZB4BW31)
		١,	1	< 250 Vac/ Vdc	Green	XB4BW3365	(ZB4BW065 + ZB4BW33)
		'			Red	XB4BW3465	(ZB4BW065 + ZB4BW34)
					Yellow	XB4BW3565	(ZB4BW065 + ZB4BW35)
				110–120 Vac 50/60 Hz	White	XB4BW3135	(ZB4BW035 + ZB4BW31)
	Transformer				Green	XB4BW3335	(ZB4BW035 + ZB4BW33)
	type 1.2 VA, 6 V secondary.	VA, 6 V			Red	XB4BW3435	(ZB4BW035 + ZB4BW34)
					Yellow	XB4BW3535	(ZB4BW035 + ZB4BW35)
	BA9s	1	1		White	XB4BW3145	(ZB4BW045 + ZB4BW31)
	incandescent bulb			230–240	Green	XB4BW3345	(ZB4BW045 + ZB4BW33)
	included			Vac 50/60 Hz	Red	XB4BW3445	(ZB4BW045 + ZB4BW34)
				00/00112	Yellow	XB4BW3545	(ZB4BW045 + ZB4BW35)
Extended							
					White	XB4BW11B5	(ZB4BW0B15 + ZB4BW113)
					Green	XB4BW13B5	(ZB4BW0B35 + ZB4BW133)
				24 Vac/Vdc	Red	XB4BW14B5	(ZB4BW0B45 + ZB4BW143)
	eted				Yellow	XB4BW15B5	(ZB4BW0B55 + ZB4BW153)
	Protected	4	4		Blue	XB4BW16B5	(ZB4BW0B65 + ZB4BW163)
	1 ヒレ	1	1		White	XB4BW11G5	(ZB4BW0G15 + ZB4BW113)
		1			Green	XB4BW13G5	(ZB4BW0G35 + ZB4BW133)
				110–120 Vac	Red	XB4BW14G5	(ZB4BW0G45 + ZB4BW143)
				vac	Yellow	XB4BW15G5	(ZB4BW0G55 + ZB4BW153)
		1			Blue	XB4BW16G5	(ZB4BW0G65 + ZB4BW163)

For legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.







XB4BV33

XB4BV64





XB4BW33B5

XB4BW3465



XB4BW3545

ZB4BA36 ZB4BA46 ZB4BA56 ZB4BA66



XB4 Operators Refer to Catalog DIA5ED21212EN

XB4 Operators

Table 19.72: Non-Illuminated Operators, Momentary—Unmarked



Table 19.73: Non-Illuminated Operators, Momentary—Premarked

Guarded Head

Shape of Head	Type of Push	Marking Text	Marking Color	Cap Color	Catalog Number
			White	Green	ZB4BA331
		I	Black	White	ZB4BA131
		START	White	Green	ZB4BA333
		SIARI	Black	White	ZB4BA133
		ON	White	Green	ZB4BA341
			Black	White	ZB4BA141
		RESET	White	Black	ZB4BA222
	Flush	JOG	White	Black	ZB4BA245
	Flush	0	White	Red	ZB4BA432
		U	vvnite	Black	ZB4BA232
		STOP	White	Red	ZB4BA434
		3101	vviille	Black	ZB4BA234
		OFF	White	Red	ZB4BA435
			vvnite	Black	ZB4BA235
		1 [6]	Black	White	ZB4BA334
		• [0]	White	Black	ZB4BA335
		0	White	Red	ZB4BL432
		U	vvnite	Black	ZB4BL232
	Cutonded	STOP	White	Red	ZB4BL434
	Extended	S10P	vvnite	Black	ZB4BL234
		OFF	Mhito	Red	ZB4BL435
		OFF	White	Black	ZB4BL235

Green Red Yellow

Blue

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.







7B4BA38



ZB4BP18





ZB4BA36





ZB4BL432



^[5] [6] For legend ordering information, see XB4 Legend Sheets, page 19-42.

ZB4BA334

Cap supplied not clipped-in, allowing orientation of arrow in any one of 4 directions:



schneider-electric.us



Table 19.74: Non-Illuminated Push-on/Push-off Operators

Shape of Head	Type of Push	Color of Push	Catalog Number
		White	ZB4BH01
_		Black	ZB4BH02
	Floris	Green	ZB4BH03
	Flush	Red	ZB4BH04
		Yellow	ZB4BH05
		Blue	ZB4BH06
		White	ZB4BH1
		Black	ZB4BH2
	Extended	Green	ZB4BH3
	Extended	Red	ZB4BH4
20		Yellow	ZB4BH5
		Blue	ZB4BH6

Table 19.75: Three Head Operators, Momentary

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number
Premarked					
		"I" (white) "II" (white)	Green Green		ZB4BA73132
	"→" (white)	"←" (white) "→" (white)	Green Green		ZB4BA73133
		"t" (white) "t" (white)	Green Green	IP66 IP69K	ZB4BA73134
	Two flush	"+" (white) "-" (white)	Green Green		ZB4BA73135
Two flush + one central		"+" (black) "-" (black)	White White		ZB4BA71115
projecting red push marked "Stop"		"←" (black) "→" (white)	White Black		ZB4BA71123
·		"t" (black) "" (white)	White Black		ZB4BA71124
		"t" (white) "\texts" (white)	Black Black		ZB4BA72124
Without caps					
	Two flush without caps	_	_	IP66 IP69K	ZB4BA791

Table 19.76: Two Head Operators, Momentary

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number
No Marking					
		_	Green Red		ZB4BA7340
	Two flush	_	White Black	IP66	ZB4BA7120
	One flush One extended	_	Green Red	IP69K	ZB4BL7340
Premarked					
		"I" (white) "O" (white)	Green Red		ZB4BA7341
O	Two flush	"I" (black) "O" (white)	White Black	IP66	ZB4BA7121
	One flush One extended	"I" (white) "O" (white)	Green Red	IP69K	ZB4BL7341
Without caps					
	Two flush without caps	_	_	IP66 IP69K	ZB4BA79

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.











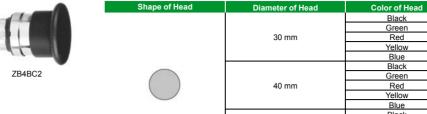


XB4 Operators and Emergency Stop Operators

Refer to Catalog DIA5ED2121212EN

XB4 Operators and Emergency Stop Operators

Table 19.77: Mushroom Heads, Momentary



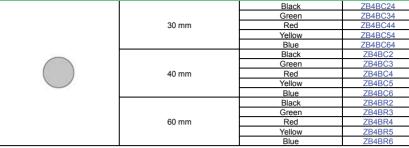


Table 19 78: Mushroom Heads for Maintained Push Buttons

Table 19.76: Mus	lable 19.78: Mushroom Heads for Maintained Push Buttons							
Shape of Head	Type of Push	Diameter of Head	Color	Catalog Number				
For use in Emergency Stop applications								
		40 mm	Red	ZB4BT84				
(\circ)	Trigger action Push-pull [7]	60 mm	Red	ZB4BX84				
		30 mm	Red	ZB4BS834				
	Trigger action	40	Red	ZB4BS844				
	Turn-to-release [7]	40 mm	Red marked "EMO"	ZB4BS84430				
		60 mm	Red	ZB4BS864				
		30 mm	Red	ZB4BS934				
(A)	Trigger action	40 mm	Red	ZB4BS944 [8]				
	Key release (No. 455) [7]	60 mm	Red	ZB4BS964				
For use in non-Emerge	ncy Stop applications							
		40 mm	Black	ZB4BT2				
(\circ)	Push-pull	60 mm	Black	ZB4BX2				
		30 mm	Black	ZB4BS42				
			Black	ZB4BS52				
	Turn-to-release	40 mm	Yellow	ZB4BS55				
	Turr-to-release	40 mm	Yellow marked "Robot Stop"	ZB4BS5550				
		60 mm	Black	ZB4BS62				
		30 mm	Black	ZB4BS72				
(A)	Key release	40 mm	Black	ZB4BS12				
	(No. 455)	60 mm	Black	ZB4BS22				

Table 19.79: Circular Legends for Emergency Stop Mushroom Heads (vellow background)

(Jonett Buong. Burna)				
Diameter	Text	Catalog Number		
	Blank	ZBY8101		
90 mm	EMERGENCY STOP	ZBY8330		
	Blank	ZBY9121		
00 Dl-d	Emergency Stop	ZBY9320		
60 mm Bezeled	Prada de Emergencia	ZBY9420		
	Not Halt	ZBY9220		

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets,







ZB4BR2



ZB4BS834



ZB4BT4



ZB4BS64



ZB4BS74



ZBY9320

^[7] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).

Other key numbers:

[—]key no. 421E: add the suffix 12 to the catalog number.

⁻key no. 458A: add the suffix 10 to the catalog number.

[—]key no. 520E: add the suffix 14 to the catalog number.

⁻key no. 3131A: add the suffix 20 to the catalog number.

Example: The catalog number for a Ø 40 mm red mushroom head for a trigger action, maintained push button, with release by key no. 421E becomes: ZB5AS94412.





ZB4BD4 Standard Lever

ZB4BJ3 Extended Lever



XB4 Selector Switches

Table 19.80: Non-Illuminated Selector Switches [9]

Color	Number and Type	of Positions	Standard Lever [10] Catalog I	Extended Lever
Black	2-maintained	\	ZB4BD2	ZB4BJ2
Black	2-momentary from right to left	\Diamond	ZB4BD4	ZB4BJ4
Black	3-maintained	\rightarrow	ZB4BD3	ZB4BJ3
Black	3-momentary to center	\Leftrightarrow	ZB4BD5	ZB4BJ5
Black	3-momentary from left to center	\checkmark	ZB4BD7	ZB4BJ7
Black	3-momentary from right to center	$\downarrow \downarrow$	ZB4BD8	ZB4BJ8

Table 19.81: Non-Illuminated Key Switches [9]

Type of Operator	Number and T	Catalog Number	
		∜ ✓	ZB4BG2
	2-maintained	S	ZB4BG02
			ZB4BG4
	2-momentary from right to left	\Diamond	ZB4BG6
			ZB4BG0
Key (No. 455) NOTE: The symbol indicates key		3	ZB4BG3
withdrawal position(s). Other key numbers: —key no. 421E: add the suffix 12 to the		ØÎ∕	ZB4BG03
catalog number. —key no. 458A: add the suffix 10 to the catalog number.	3-maintained		ZB4BG04
 key no. 520E: add the suffix 14 to the catalog number. key no. 3131A: add the suffix 20 to the 		\$ P	ZB4BG5
catalog number. —key no. 8D1: add the suffix D to the catalog number.		₹	ZB4BG9
Example: The catalog number for a head		\bigvee	ZB4BG09
with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position,	3-momentary from	₹\P	ZB4BG1
becomes: ZB5AG212	left to center		ZB4BG01
	3-momentary to center	\Leftrightarrow	ZB4BG7
		\$	ZB4BG8
	3-momentary from right to center		ZB4BG05
		\sim	ZB4BG08

Table 19.82: Sequence of Contacts on Selector Switch Bodies

Unit Type			Selector Switches													
Offic Type			2-position 3-position													
Note: L=Left, C=Center, O=Open, X=Cl	R=Right, osed		15°						5		()	(5°
Operator Plunger	Up															
Position	Down															
Contact Block Location	n	L	С	R	L	С	R	L	С	R	L	С	R	L	С	R
Contacts	N.O.	0	0	0	Χ	Χ	Х	Х	Χ	0	0	0	0	0	Χ	Χ
Contacts	N.C.	Χ	Χ	Χ	0	0	0	0	0	Χ	Χ	Χ	Χ	Χ	0	0

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.

For Selector Switch Sequence, refer to Table 19.97 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-36.



XB4 Specialty Operators Refer to Catalog DIA5ED2121212EN











XB4BA8●1

XB4 Specialty Operators

Table 19.83: Potentiometer Operator (with Mounting Collar)

Shape of Head	Description	Application	Catalog Number
	For potentiometer with	For shaft Ø 1/4 in. (6.35 mm)	ZB4BD922
	shaft length 1.73 to 1.97 in. (45 to 50 mm) (potentiometer not included)	For shaft Ø 0.24 in. (6 mm)	ZB4BD912

Table 19.84: Complete Potentiometers

Description	Resistance (k Ω)	Weight (kg/lb)	Catalog Number
+/- 10% linear mode precision complete potentiometer with	1	0.095/0.209	XB4BD912R1K
	4.7	0.095/0.209	XB4BD912R4K7
screw terminals	10	0.095/0.209	XB4BD912R10K
	47	0.095/0.209	XB4BD912R47K
	100	0.095/0.209	XB4BD912R100K
	470	0.095/0.209	XB4BD912R470K

Table 19.85: Joysticks (54 mm, Extended Operating Shaft) [11]

-		,	
Description	Contact Operation	Action	Catalog Number
2 direction		Maintained	XD4PA12
1	1 step 1 N.O. contact per direction	Momentary	XD4PA22
4 direction		Maintained	XD4PA14
$\leftarrow \downarrow \rightarrow$	1 step 1 N.O. contact per direction	Momentary	XD4PA24

Table 19.86: Legends for Joysticks

Description	For use with	Color	Catalog Number
Legends 30 x 48 mm for customer	O dissadias	Black one side Red reverse	ZBG2201
engraving	2 direction	White one side Yellow reverse	ZBG2401
Legends 48 x 48 mm for customer	4 direction	Black one side Red reverse	ZBG4201
engraving	4 direction	White one side Yellow reverse	ZBG4401

Table 19.87: Two Position Toggle Switch

Shape of Head	Color	Type of Positions	Catalog Number
	Black	Maintained	ZB4BD28
	Black	Momentary	ZB4BD48

Table 19.88: Reset Operators, Flush, Adjustable Shaft

Shape of Head	Travel		Actuation Distance		Color	Catalog Number										
Shape of nead	in.	mm	in. mm		Color	Catalog Nulliber										
					Black	XB4BA821										
			0.24- 0.63	6–16	Red	XB4BA841										
	0.39	10	0.03		Blue	XB4BA861										
	0.39	10	0.63- 1.02		Black	XB4BA822										
				16–26	Red	XB4BA842										
					Blue	XB4BA862										
		14	1.18- 5.12 5.12- 10.12		Black	XB4BA921										
																Red
	0.55					Blue	XB4BA961									
	0.55				Black	XB4BA922										
				130-257	Red	XB4BA942										
			10.12	10.12	Blue	XB4BA962										

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.



XB4 Pilot Lights

Table 19.89: Pilot Light Heads





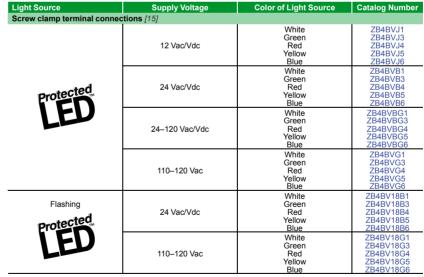
ZB4BV043S



Table 19.90: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)

Description	Light Source	Supply Voltage (V)	Catalog Number						
Screw clamp terminal connections									
Direct supply	BA9s bulb 2.4 W max. Not included [13] <250		ZB4BV6						
Direct supply	BA9s incandescent bulb included	24 v 2 Watt ZB4							
Direct supply	BA9s incandescent bulb included	ZB4BV6120							
		110–120 Vac 50/60 Hz	ZB4BV3						
T		230–240 Vac 50/60 Hz	ZB4BV4						
Transformer type 1.2 VA, 6 V secondary	BA9s incandescent bulb included	400-50 Hz	ZB4BV5						
in this of occordary	Duib ii/Cluded	440–480 Vac 60 Hz	ZB4BV8						
		550–600 Vac 60 Hz	ZB4BV9						

Table 19.91: Complete Bodies (Mounting Collar + Light Module with Protected LED™) [14]







ZB4BV6





ZB4BV• ZB4BV••

For use in bright ambient conditions, for example, in sunlight. [12]

Order bulb separately; see Table 19.119 BA9s Bulbs and Associated Accessories, page 19-44. For BA9 LED, see Table 19.402 LED, BA9s Base, page 19-137. [13]

For 240 V LED, replace the last "B" or "G" in the catalog number with an "M". For example, ZB4BVB1 (24 V) becomes ZB4BVM1 (240 V). [14]

^[15] For Quick-Connect version, add "3" to the end of the catalog number Example: ZB4BVJ13 (Quick-Connect size 1 x 1/40" or 2 x 0.110").



XB4 Illuminated Operators

Refer to Catalog DIA5ED2121212EN







ZB4BW333

ZB4BW563







ZB4BW14



ZB4BW643







XB4 Illuminated Operators

Table 19.92: Heads for Momentary Illuminated Push Buttons

Shape of Head	Type of Push	Color	Catalog Number
Only use with Protected L	ED™ light modules		
		White	ZB4BW313
		Green	ZB4BW333
	Flush	Red	ZB4BW343
		Yellow	ZB4BW353
		Blue	ZB4BW363
		White	ZB4BW513
		Green	ZB4BW533
	Flush with clear silicone boot	Red	ZB4BW543
		Yellow	ZB4BW553
		Blue	ZB4BW563
		White	ZB4BA18
		Green	ZB4BA38
	Flush for insertion of legend	Red	ZB4BA48
		Yellow	ZB4BA58
		Blue	ZB4BA68
		White	ZB4BW113
	Extended	Green	ZB4BW133
((())		Red	ZB4BW143
		Yellow	ZB4BW153
		Blue	ZB4BW163
		Clear	ZB4BW413
		Green	ZB4BW433
(0)	Mushroom (40 mm)	Red	ZB4BW443
		Yellow	ZB4BW453
		Blue	ZB4BW463
Only use with light modul	es for a BA9s incandescent bulb,	neon or LED	
		White	ZB4BW31
76 <u></u> -0		Green	ZB4BW33
	Florid	Red	ZB4BW34
	Flush	Yellow	ZB4BW35
		Blue	ZB4BW36
		Clear	ZB4BW37
		White	ZB4BW11
		Green	ZB4BW13
	Extended	Red	ZB4BW14
	Extended	Yellow	ZB4BW15
		Blue	ZB4BW16
		Clear	ZB4BW17

Table 19.93: Heads for Maintained Illuminated Push Buttons

Shape of Head	Type of Push	Color of Lens	Catalog Number						
Only use with Protected LED light modules									
		Clear	ZB4BW613						
	Push/Pull Mushroom (40 mm)	Green	ZB4BW633						
(0)		Red	ZB4BW643						
		Yellow	ZB4BW653						
		Blue	ZB4BW663						

Table 19.94: Illuminated Push-On/Push-Off Operators

Shape of Head	Type of Push	Color of Lens	Catalog Number
Only use with Protected LED	light modules		
		White	ZB4BH013
		Green	ZB4BH033
	Flush	Red	ZB4BH043
		Yellow	ZB4BH053
		Blue	ZB4BH063
		White	ZB4BH13
		Green	ZB4BH33
((()))	Extended	Red	ZB4BH43
		Yellow	ZB4BH53
		Blue	ZB4BH63

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41 and XB4 Legend Sheets, page 19-42.

XB4 Illuminated Operators

Refer to Catalog DIA5ED21212EN







Table 19.95: Two Button with Clear Pilot Light, Momentary

Shape of Head	Description	Marking Cap Color		Degree of Protection	Catalog Number
No Marking					
Protected		_	Green Red		ZB4BW7A3740
	Two flush	_	White Black	IP66	ZB4BW7A1720
Protected O	One flush One extended	_	Green Red	IP69K	ZB4BW7L3740
Premarked		### 4 · · · ·			
Protected		"I" (white) "O" (white)	Green Red		ZB4BW7A3741
	Two flush	"I" (black) "O" (white)	White Black		ZB4BW7A1721
Protected O	One flush One extended	"I" (white) "O" (white)	Green Red	IP66	ZB4BW7L3741
protected D	Two flush	"t" (black) "↓" (white)	White Black	IP69K	ZB4BW7A1724
Protected D	Two flush	"+" (black) "-" (white)	White Black		ZB4BW7A1715
Without caps					
	Two flush without caps	_	_	IP66 IP69K	ZB4BW7A9



ZB4BK1343

Table 19.96: Illuminated Selector Switches, Standard Lever

Shape of Head	Number and Type of Positi	Catalog Number [16]	
Only use with Protect			
	2-maintained	<u></u>	ZB4BK12∙3
	2-momentary from right to left	\Diamond	ZB4BK14∙3
	3-maintained	\downarrow	ZB4BK13∙3
	3-momentary to center	\Diamond	ZB4BK15∙3
	3-momentary from right to center	\Rightarrow	ZB4BK18∙3
	3-momentary from left to center	\bigvee	ZB4BK17∙3

Table 19.97: Sequence of Contacts on Illuminated Selector Switch Bodies

Unit Toma	Selector Switches										
Unit Type		2-position				3-position					
		315			45°	315					45°
Operator Plunger	Up										
Operator Plunger Position Down											
Contact Block Loca	tion	L	R	L	R	L	R	L	R	L	R
Contonto	N.O.	0	0	Χ	Χ	Χ	0	0	0	0	X
Contacts	N.C.	Х	Х	0	0	0	Х	Х	Х	Х	0

Note: L=Left, R=Right, O=Open, X=Closed

2 Position Selector Switch			3 Position Selector Switch			
1	1	Contact block guide	1	1	1	Contact block guide
0	Х	1 N.O. (left or right)	0	0	Χ	1 N.O. (left)
Х	0	1 N.C. (left or right)	Χ	0	Χ	2 N.O. wired in parallel (side by side)
0	Х	1 N.O.	Х	0	0	1 N.O. (right)
		and	0	Х	Χ	1 N.C. (right)
X	0	1 N.C.	Х	Χ	0	1 N.C. (left)
			0	Χ	0	2 N.C. wired in series (side by side)

For Legends, refer to XB4 Legend Holders, page 19-40, XB4 Legend Inserts, page 19-41, and XB4 Legend Sheets, page 19-42.

For Caps, refer to XB4 Accessories, page 19-42.



XB4 Electrical Components

Refer to Catalog DIA5ED21212EN

ZB4BZ101





ZB4BW0••3



XB4 Electrical Components

Table 19.98: Contact Blocks (Mounting Collar with Contact Blocks)

Description	Type of	Type of Contact		
Description	N.O.	N.C.	Catalog Number	
	1	_	ZB4BZ101	
Screw clamp terminal	_	1	ZB4BZ102	
	2	_	ZB4BZ103	
connections	_	2	ZB4BZ104	
	1	1	ZB4BZ105	
	1	2	ZB4BZ141	

For Quick-Connect version add "3" to the end of the catalog number Example: ZB4BZ1013 (Quick-Connect size 1 x 0.250" or 2 x 0.110").

For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZB4BZ1029).

Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001.

Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001.

Table 19.99: Complete Bodies

(Mounting Collar + Single Contact Block + Light Module with Protected LED™)

Limbé Carras		Type of Contact [17]		Supply Voltage [18]		
Light Source	N.O.	N.C.	Color	24 Vac/Vdc	110-120 Vac	
	N.U.	N.C.		Catalog	Number	
Screw clamp term	ninal conn	ections				
			White	ZB4BW0B11	ZB4BW0G11	
			Green	ZB4BW0B31	ZB4BW0G31	
	1	_	Red	ZB4BW0B41	ZB4BW0G41	
			Yellow	ZB4BW0B51	ZB4BW0G51	
			Blue	ZB4BW0B61	ZB4BW0G61	
			White	ZB4BW0B12	ZB4BW0G12	
			Green	ZB4BW0B32	ZB4BW0G32	
	_	1	Red	ZB4BW0B42	ZB4BW0G42	
protected	rotected 2			Yellow	ZB4BW0B52	ZB4BW0G52
Piole			Blue	ZB4BW0B62	ZB4BW0G62	
1 FD			White	ZB4BW0B13	ZB4BW0G13	
			Green	ZB4BW0B33	ZB4BW0G33	
11.5		_	Red	ZB4BW0B43	ZB4BW0G43	
			Yellow	ZB4BW0B53	ZB4BW0G53	
			Blue	ZB4BW0B63	ZB4BW0G63	
			White	ZB4BW0B15	ZB4BW0G15	
		Green	ZB4BW0B35	ZB4BW0G35		
	1	1 1 Red Yellow Blue	Red	ZB4BW0B45	ZB4BW0G45	
			Yellow	ZB4BW0B55	ZB4BW0G55	
			Blue	ZB4BW0B65	ZB4BW0G65	



Supply	Light Source	Supply Voltage	Type of Contact [19]		Color of Light Source	Catalog Number
		voltage	N.O.	N.C.	Source	
Screw clamp term	inal connections					
	D.4.0		1	_	_	ZB4BW061
Direct supply	BA9s 2.4 W max. bulb			1	_	ZB4BW062
Direct Supply 2.	Not included [20]		2	_	_	ZB4BW063
			1	1	_	ZB4BW065
		110-120 Vac	1	_	_	ZB4BW031
Transfermenture	DA0-	50/60 Hz	1	1	_	ZB4BW035
1.2 VA, 6 V inc	BA9s incandescent bulb included	230–240 Vac 50/60 Hz	1	_	_	ZB4BW041
			1	1	_	ZB4BW045
bulb included		440–480 Vac 60 Hz	1	_	_	ZB4BW081



ZB4BW0•5

^[18]

Can be fitted with additional contact blocks, seeTable 19.102 Add-On Contact Block (with screw clamp terminal connections), page 19-38. For 240V LED, replace the "B" or "G" with "M". (Example: change "ZB4BW0B11 (24V) to ZB4BW0M11 (240V))

Can be fitted with additional contact blocks, seeTable 19.102 Add-On Contact Block (with screw clamp terminal connections), page 19-38. [19]

Order bulb separately, see BA9s Bulbs and Associated Accessories.



Refer to Catalog DIA5ED2121212EN



Table 19.101: Body/Mounting Collar

For use with	Catalog Number
Electrical block (contact or light module)	ZB4BZ009

Table 19.102: Add-On Contact Block (with screw clamp terminal connections) [21]

Description		Type of	Catalog Numbe	
		N.O.	N.C.	Catalog Nullibe
Standard single contact	blocks [22][24]	1	_	ZBE101
Standard Single Contact	DIOCKS [23][24]	_ 1		ZBE102
		2	_	ZBE203
Standard double contact	t blocks [23][24]	_	2	ZBE204
		1 1		ZBE205
Special contact blocks for low power switching [25]		1	_	ZBE1016
Special contact blocks it	or low power switching [23]	_	1	ZBE1026
Low-power switching	Dusty environment [25]	1	_	ZBE1016P
Low-power switching	(IP5X, 50 µm dust)	ıst) <u> </u>	ZBE1026P	
	Early make N.O.	1	-	ZBE201
Staggered contacts	Late break N.C.	_	1	ZBE202
	Overlapping N.O.+N.C.	1	1	ZB4BZ106
	Staggered N.O.+N.C.	_	2	ZB4BZ107

Description	Supply Voltage	Color of Light Source	Catalog Number
		White	ZBVJ1
		Green	ZBVJ3
	12 Vac/Vdc	Red	ZBVJ4
		Yellow	ZBVJ5
		Blue	ZBVJ6
		White	ZBVB1
		Green	ZBVB3
	24 Vac/Vdc	Red	ZBVB4
		Yellow	ZBVB5
		Blue	ZBVB6
ted		White	ZBVG1
Protected"		Green	ZBVG3
1 [1]	110-120 Vac	Red	ZBVG4
		Yellow	ZBVG5
		Blue	ZBVG6
		White	ZBVBG1
		Green	ZBVBG3
	24-120 Vac/Vdc	Red	ZBVBG4
		Yellow	ZBVBG5
		Blue	ZBVBG6
		White	ZBVM1
		Green	ZBVM3
	230-240 Vac	Red	ZBVM4
		Yellow	ZBVM5
		Blue	ZBVM6
Direct supply for BA9s 2.4 W max. bulb not included See Table 19.119 BA9s Bulbs and Associated Accessories, page 19-44	< 250 Vac/Vdc	_	ZBV6



ZB4BZ009





ZBE101 ZBE203



ZBVB•

Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001 for more details.

^[22] [23]

Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001for more details. For Quick-Connect version add "3" to the end of the catalog number Example: ZBE1013 (Quick-Connect size 1 x 0.250" or 2 x 0.110"). For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZBE1029). Cannot stack additional contact blocks onto these blocks.

^[24]

^[25]



XB4 Electrical Components

Refer to Catalog DIA5ED2121212EN



ZB4BZ009





Table 19.104: Body/Mounting Collar

For use with	Catalog Number
Contact block or light module	ZB4BZ009

Table 19.105: Contact Blocks [26]

Spring Terminal Connections, Contacts for Standard Applications				
Description	Type of contact	N.O.	L, N.C.	Catalog Number
	Single 1 -	_	ZBE1015	
	olligic	_	1	ZBE1025
		1	_	ZB4BZ1015
Contact blocks	Cincela with	_	1	ZB4BZ1025
	Single with body/mounting collar	2	_	ZB4BZ1035
	body/modnarig collar	_	2	ZB4BZ1045
		1	1	ZB4BZ1055

Table 19.106: Light Modules [26]

Spring Terminal Connections					
Description	Supply voltage	Color of light source	Catalog Number		
		White	ZBVJ15		
		Green	ZBVJ35		
	12 Vac/Vdc	Red	ZBVJ45		
		Orange	ZBVJ55		
		Blue	ZBVJ65		
		White	ZBVB15		
		Green	ZBVB35		
Integral LED (to combine with heads for integral LED)	24 Vac/Vdc	Red	ZBVB45		
		Orange			
Protected '		Blue	ZBVB65		
LED		White	ZBVG15		
		Green	ZBVG35		
	110-120 Vac	Red	ZBVG45		
		Orange	ZBVG15 ZBVG35 ZBVG45 ZBVG55 ZBVG65		
		Blue			
		White	ZBVM15		
		Green	ZBVM35		
	230-240 Vac	Red	ZBVM45		
		Orange	ZBVM55		
		Blue	ZBVM65		







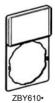


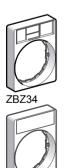
XB4 Legend Holders

Table 19.107: Standard (30 x 40 mm) Legend Holders for 8 x 27 mm Legends

Description Color Text
With blank legend (for engraving) — ZB232 With blank legend (for engraving) White or yellow background — ZBY2101 Custom Legend (Specify Engraving) Black background — ZBY4101 Red background (including spaces) (including spaces) maximum per line Black background White ZBY2002 With legend marked with international language Black or red background [28] Black ZBY4001 With legend marked with international language Black or red background [28] 0 (lack background) ZBY2146 O-I
Black or red background
(for engraving) White or yellow background — ZBY4101 Custom Legend (Specify Engraving) Black background White ZBY2002 Z lines of 1f characters (including spaces) maximum per line White background White ZBY2004 White background Black ZBY4001 With legend marked with international language Black or red background [28] O (black background) ZBY2146 Black or red background [28] II ZBY2148 III ZBY2178 I-II ZBY2178 I-II ZBY2178 I-II ZBY2179 I-O-I ZBY2186 AUTO ZBY2316 AUTO AUTO ZBY2364 AUTO-HAND ZBY2364 AUTO-HAND ZBY2336 EMERGENCY STOP ZBY2336 FAST ZBY2336 FOR-REV ZBY2336 FOR-REV ZBY2336 FOR-REV ZBY2326 HAND-OFF-AUTO ZBY2321 JOG ZBY2321 JOG ZBY2332 LEFT ZBY2312 OFF ZBY2312 OFF DFCON </td
Black background White ZBY2002
Red background White ZBY2004
White background Black ZBY4005
Vallow background Black ZBY4005
With legend marked with international language Black or red background 28
With legend marked with international language Black or red background [28]
Black or red background [28] I
Black or red background 28 II
II
O-I ZBY2178
I-O-II
AUTO
AUTO-HAND
AUTO-O-HAND
CLOSE
DOWN
EMERGENCY STOP ZBY2330
FAST ZBY2328
FORWARD
FORWARD
FOR-REV ZBY2371 HAND
HAND-OFF-AUTO ZBY2387 INCH
NCH ZBY2321 JOG ZBY2382 LEFT ZBY2310 OFF ZBY2312 OFF OPF-ON ZBY2312 ON ZBY2311 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2326 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2326 OPEN ZBY2313 OPEN ZBY2313 OPEN ZBY2326 OPEN ZBY2326 OPEN ZBY2326 OPEN ZBY2326 OPEN ZBY2326 OPEN ZBY2313 OPEN ZBY2314 OPEN ZBY2315 OPEN Z
With legend marked with English language Black or red background[28] JOG ZBY2382 LEFT ZBY2310 OFF ZBY2312 OFF-ON ZBY2367 OF OPF-ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2326
With legend marked with English language Black or red background[28] LEFT ZBY2310 OFF ZBY2312 OFF-ON ZBY2367 ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2326
With legend marked with English language Black or red background[28] OFF ZBY2312 OFF-ON ZBY2367 ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2316
With legend marked with English language Black or red background[28] OFF ZBY2312 OFF-ON ZBY2367 ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2316
OFF-ON ZBY2367 ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2326
ON ZBY2311 OPEN ZBY2313 POWER ON ZBY2326
POWER ON ZBY2326
RESET (red background) ZBY2323
RESET (black background) ZBY2322
REVERSE ZBY2306
RIGHT ZBY2309
RUN ZBY2334
SLOW ZBY2327
START ZBY2303
STOP ZBY2304
STOP-START ZBY2366
UP ZBY2307







ZBY•H101





XB4 Legend Inserts

Refer to Catalog DIA5ED21212EN











Description [29]	Color	Catalog Number
Without legend insert	<u> </u>	ZBZ33
With blank legend insert	Black or red background	ZBY6101
	White or yellow background	ZBY6102

Table 19.109: 30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends

Description [29]	Color	Catalog Number
Without legend	_	ZBZ34
With blank legend	Black or red background	ZBY2H101
With Dialik legenu	White or yellow background	ZBY4H101

Table 19.110: 30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

Description [29]	Color	Catalog Number
Without legend	_	ZBZ35
With blank legend	Black or red background	ZBY6H101
	White or yellow background	ZBY6H102

XB4 Legend Inserts

Table 19.111: Marked Legends for 8 x 27 mm (for 30 x 40 mm legend holders ZBZ32)

Color	Marking	Text	Catalog Number
		O (black background)	ZBY02146
		O (red background)	ZBY02931
		T .	ZBY02147
	International	II	ZBY02148
		O-I	ZBY02178
		I-II	ZBY02179
		I-O-II	ZBY02186
		AUTO	ZBY02115
		AUTO-HAND	ZBY02364
		AUTO-O-HAND	ZBY02385
		CLOSE	ZBY02314
		DOWN	ZBY02308
		EMERGENCY STOP	ZBY02330
		FAST	ZBY02328
		FORWARD	ZBY02305
		FOR-REV	ZBY02371
		HAND	ZBY02316
Black or red background		HAND-OFF-AUTO	ZBY02387
[30]		INCH	ZBY02321
		JOG	ZBY02382
	English	LEFT	ZBY02310
		OFF	ZBY02312
		OFF-ON	ZBY02367
		ON	ZBY02311
		OPEN	ZBY02313
		POWER ON	ZBY02326
		RESET (red background)	ZBY02323
		RESET (black background)	ZBY02322
		REVERSE	ZBY02306
		RIGHT	ZBY02309
		RUN	ZBY02334
		SLOW	ZBY02327
		START	ZBY02303
		STOP	ZBY02304
		STOP-START	ZBY02366
		UP	ZBY02307

Table 19.112: Legends for Customer Engraving (inserts only)

Description	For use with	Color	Text Color	Catalog Number
0 4 07 22	30 x 40 mm	Black or red background	White	ZBY0101
8 x 27 mm legend holders	legend holders	White or yellow background	Black	ZBY0102
10 v 07 mm	30 x 50 mm	Black or red background	White	ZBY5101
18 x 27 mm	legend holders	White or yellow background	Black	ZBY5102

Table 19.113: Legends for Factory Engraving (inserts only)

Table 13.113. Legends for Factory Engraving (inserts only)						
Description	For use with	For use with Color		Catalog Number		
8 x 27 mm Custom Legend/Insert		Black background	White	ZBY01002		
	30 x 40 mm legend	Red background	White	ZBY01004		
		White background	Black	ZBY01001		
	noiders	Yellow background	Black	ZBY01005		
18 x 27 mm Custom Legend/Insert Only (Specify Engraving) 3 lines of 11	20 v E0 mm	Black background	White	ZBY05002		
	30 x 50 mm	Red background	White	ZBY05004		

³⁰ Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified above).



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Table 19.113 Legends for Factory Engraving (inserts only) (cont'd.)

Description	For use with	Color	Text Color	Catalog Number
characters (including spaces)	legend	White background	Black	ZBY05001
maximum per line (Example: ZBY05002 marked "Robot")	holders	Yellow background	Black	ZBY05005

XB4 Legend Sheets

Table 19.114: Sheets of Legends for Push Buttons, Switches, and Pilot Lights

Description	Marking	Text	Catalog Number
	Blank		ZBY1101
		0	ZBY1146
			ZBY1147
		II	ZBY1148
Sheets of 66 circular peel-off	International	III	ZBY1149
transparent self-adhesive		STOP	ZBY1304
legends		→	ZBY1912
		HAND	ZBY1316
	Franksk	OFF	ZBY1312
	English	ON	ZBY1311
		START	ZBY1303

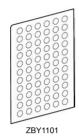


Table 19.115: Push Button Caps—Unmarked

For use with	Type of Push	Color	Catalog Number
		White	ZBA1
ZB4BA0		Black	ZBA2
		Green	ZBA3
	Flush	Red	ZBA4
		Yellow	ZBA5
		Blue	ZBA6
		6 colors [31]	ZBA9
push button heads		White	ZBL1
		Black	ZBL2
		Green	ZBL3
	Extended	Red	ZBL4
		Yellow	ZBL5
		Blue	ZBL6
		6 colors [31]	ZBL9

Table 19.116: Push Button Caps—Marked

For use with	Type of Push	Marking		Cap	Catalog
For use with	Type of Fusii	Text [32]	Color	Color	Number
<u> </u>		I [33]	White	Green	ZBA331
		. ,	Black	White	ZBA131
		START [33]	White	Green	ZBA333
		On act [00]	Black	White	ZBA133
		ON	White	Green	ZBA341
		•	Black	White	ZBA141
		UP [33]	Black	White	ZBA343
		DOWN [33]	White	Black	ZBA344
		[33]	White	Green	ZBA345
ZB4BA0 push button heads	Flush	[33]	White	Black	ZBA245
		\Diamond	White	Green	ZBA346
		+	Black	White	ZBA334 [34]
		†	White	Black	ZBA335 [34]
		O [33]	White	Red	ZBA432
		~ · ·	vvnite	Black	ZBA232
		STOP [33]	White	Red	ZBA434
			********	Black	ZBA234
		OFF	White	Red	ZBA435
			ļ	Black	ZBA235
		R [34]	White	Blue	ZBA639









^[31]

Set of 6 different colored caps: white, black, green, red, yellow, blue.
Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified). [32]

^[33]

Double injection molded marking.

Cap supplied not clipped-in, allowing orientation of arrow in any one of 4 directions: ↑, ↓, ←, or → [34]



XB4 Accessories Refer to Catalog DIA5ED21212EN

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ZBA7235 ZBA7331





ZBA79





ZBZ1700





ZBZ1800 ZB4BZ6•



ZB4BZ011





DL1CF•••

Table 19.117: Multiple-head and XB5R Push Button Caps[35]

For use with	Type of Push	Marking	Cap Color	Catalog Number
		Unmarked		ZBA71
		"I" black	\A/laita	ZBA7131
		→ black	White	ZBA7134
		"+" black		ZBA7138
		Unmarked		ZBA72
		"O" white		ZBA7232
		"+" white	Black	ZBA7233
Double push button	Flush	⇒ white		ZBA7235
neads		"I" white		ZBA7237
Fripe push button neads		Unmarked	Green	ZBA73
ZB4RZA0		"I" white		ZBA7331
ZB5RZA0		"+" white		ZBA7333
		û white		ZBA7335
		"II" white		ZBA7336
		Unmarked	D- 1	ZBA74
		"O" white	Red	ZBA7432
		Unmarked	Yellow	ZBA75
		Unmarked	Blue	ZBA76
		Assorted	10 colors/36]	ZBA79

Table 19.118: Accessories

Description	Application	Color	Catalog Number
Padlocking kit Conforming to EN/ISO 13850 [37] (See legends below)	For Emergency Stop function only, with the following Ø 40 trigger-action push buttons: XB4BT8• XB4BS8• ZB4BS8• ZB4BS8• ZB4BS8• ZB4BS8•	Yellow	ZBZ3605
	For Emergency Stop function only with the following Ø 40 mm trigger-action push buttons:	Chrome Plated	ZBZ1600
Matalauarda	XB4BT8• XB4BS8•	Black	ZBZ1602
Metal guards Padlockable	XB4BS9•	Red	ZBZ1604
. daisonable	ZB4BT8 • (except ZB5AT8643M)	Yellow	ZBZ1605
	ZB4BS8• ZB4BS9•	Blue	ZBZ1606
Metal guard, padlockable	For Emergency Stop function with XB4 and XB5 E-Stop 30 mm and 40 mm operators	Chrome Plated	ZBZ1700
Metal guard	For XB4 illuminated push buttons	Chrome Plated	ZBZ1800
	Round Guard for ZB4BS5430, 2.5" dia EMO Mushroom Operators	Yellow	ZB4BZ1905
Plastic guards[38]	Narrow Flange Guard for ZB4BS5430 or ZB4BS84430 EMO Mushroom Operators[39]	Yellow	ZB4BZ2005
	Trigger Action Guard for ZB4BS84430, 3" dia EMO Mushroom Operators	Yellow	ZB4BZ2105
Padlockable flaps	For push buttons	Black	ZB4BZ62
Т аатоокарте наро	<u>'</u>	Red	ZB4BZ64
Mounting kits For push buttons with flush mounting bezel head and 30 mm mounting hole	lead and 30 Plastic flush mounting kit for legend 8 x 27 (PB and PL)		ZB4BZ021 ZB4BZ022 ZB5AZ021 ZB5AZ022 ZB5AZ023 ZB5AZ024 ZB5AZ025 ZB5AZ025
Metal blanking plug, round chrome plated [40]	For Ø 22 mm control and signalling units		ZB4SZ3
Plastic blanking plug, round black with mounting nut	For Ø 22 mm control and signalling units		ZB5SZ3
Description	Marking	Color	Catalog Number
Ø 60 mm Legend	Without	Yellow	ZBY9101T
for padlocking device ZBZ3605	EMERGENCY STOP	Yellow	ZBY9330T

Sold in lots of 10.

Set of 10 different caps: white, black, green, red, yellow, blue, white "I" on green background, black "I" on white background, white "O" on red background, white "O" on black background. Standard circular legends are not compatible with this product. Use special legends ZBY••T listed above.

For additional information, refer to publication 9001DB0601R6/06. [36]

^[37] [38]

Maximum panel thickness is 2.5 mm. [39]

Requires a ZB4BZ009 body/mounting collar for mounting, see XB4 Electrical Components, page 19-37.







Table 19.119: BA9s Bulbs and Associated Accessories

Description	Characteristics	Catalog Number
	6 V, 1.2 W	DL1CB006
Replacement bulbs	12 V, 2 W	DL1CE012
(Type BA9s) Incandescent	24 V, 2 W	DL1CE024
	120–130 V, 2.4 W	DL1CE130
Neon bulbs	120–130 V, 1.8 mA	DL1CF110
Neon builds	230–240 V, 1,8 mA	DL1CF220
Bulb extractor	_	XBFX13
Lens cap tightening tool	Illuminated push buttons with flush push	ZBZ8
Power driver bits for mounting and wiring (package of 5)	Cross headed screw (POZIDRIV type 1)	ZB4BZ905
Mounting Adapter	For mounting 22 mm push button in 30 mm KO	ZBZ41



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ZBG455 ZBG455P





ZBA709









Table 19.120: Bellows Seals for Harsh Environments (IP 69K) [41]

Description	For use with	Color & Material	Sold in Lots of	Catalog Number
Bellows seals for harsh	Any Harmony XB4 metal,	Red Silicone	2	ZBZ48
environments (Humidity, dust, high-pressure cleaning)	mushroom head push button Ø 40 mm or Ø 60 mm (except ZB4BR•16)	Black EPDM	2	ZBZ28
		Yellow EPDM	2	ZBZ58

Table 19.121: Boot for Standard Selector Switch Handle

Description	For use with	Catalog Number
Boot for standard handle	ZB4BD••	ZBD D2

Table 19.122: Replacement Keys

Description	Key Number	Catalog Number
	455	ZBG455
	421E	ZBG421E
Set of 2 keys	458A	ZBG458A
	520E	ZBG520E
	3131A	ZBG3131A
	455	ZBG455P
Set of 2 keys,	421E	ZBG421EP
One of which is supplied booted (rubber boot)	458A	ZBG458AP
One of which is supplied booted (rubber boot)	520E	ZBG520EP
	3131A	ZBG3131AP

Table 19.123: Clear Boots

Description	For use with	Material	Catalog Number
	Booted push buttons with circular head	ZBPA	
Single boots	Booted push buttons with circular head used in food industry applications		ZBP0A
Davible beets	Double-headed push buttons, two flush Silic		ZBA708
Double boots	Double-headed push buttons, one flush + one projecting		ZBA710
Triple boot	Triple-headed push buttons, two flush + one projecting		ZBA709

Table 19 124: Lone Cane

For use with	Color	Catalog Number
Lens caps for Protected LED™ light modules		
	White	ZBV0113
	Green	ZBV0133
nated push buttons with extended push	Red	ZBV0143
•	Yellow	ZBV0153
	Blue	ZBV0163
	White	ZBW9113
	Green	ZBW9133
lluminated push buttons with flush push	Red	ZBW9143
·	Yellow	ZBW9153
	Blue	ZBW9163
	White	ZBW9313
	Green	ZBW9333
luminated push buttons with extended push	Red	ZBW9343
	Yellow	ZBW9353
	Blue	ZBW9363
Lens caps for BA9 light modules		
	White	ZBV011
	Green	ZBV013
Dilat liebta	Red	ZBV014
Pilot lights	Yellow	ZBV015
	Blue	ZBV016
	Clear	ZBV017
	White	ZBW911
	Green	ZBW913
Illuminated push buttons with flush push	Red	ZBW914
numinated push buttons with hush push	Yellow	ZBW915
	Blue	ZBW916
	Clear	ZBW917
	White	ZBW931
	Green	ZBW933
Illuminated push buttons with extended push	Red	ZBW934
mummateu push buttons with extended push	Yellow	ZBW935
	Blue	ZBW936
	Clear	ZBW937

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XB5AP51



XB5AC21



XB5AL73415



XB5AW73731•5



Table 19.125: Non-Illuminated Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of	Type of	Contact	Marking	Сар	Catalog Number	Components
Head	Push	N.O.	N.C.	warking	Color	Catalog Number	Components
					Black	XB5AA21	(ZB5AZ101 + ZB5AA2)
		1			Green	XB5AA31	(ZB5AZ101 + ZB5AA3)
		'	_	_	Yellow	XB5AA51	(ZB5AZ101 + ZB5AA5)
					Blue	XB5AA61	(ZB5AZ101 + ZB5AA6)
	Flush	_	1	_	Red	XB5AA42	(ZB5AZ102 + ZB5AA4)
	Flush				Black	XB5AA25	(ZB5AZ105 + ZB5AA2)
					Green	XB5AA35	(ZB5AZ105 + ZB5AA3)
		1	1	_	Red	XB5AA45	(ZB5AZ105 + ZB5AA4)
					Yellow	XB5AA55	(ZB5AZ105 + ZB5AA5)
					Blue	XB5AA65	(ZB5AZ105 + ZB5AA6)
	Flush	1	_	"I" (white)	Green	XB5AA3311	(ZB5AZ101 + ZB5AA331)
	Flush	_	1	"O" (white)	Red	XB5AA4322	(ZB5AZ102 + ZB5AA432)
,	Flush with				Black	XB5AP21	(ZB5AZ101 + ZB5AP2)
	clear silicone				Green	XB5AP31	(ZB5AZ101 + ZB5AP3)
((boot (color of	1	_	_	Yellow	XB5AP51	(ZB5AZ101 + ZB5AP5)
	pusher				Blue	XB5AP61	(ZB5AZ101 + ZB5AP6)
	unobscured)	_	1	_	Red	XB5AP42	(ZB5AZ102 + ZB5AP4)
		_	1	_	Red	XB5AL42	(ZB5AZ102 + ZB5AL4)
	Extended	1	1	_	Red	XB5AL45	(ZB5AZ105 + ZB5AL4)
	Mushroom head Ø 40 mm	1	_	_	Black	XB5AC21	(ZB5AZ101 + ZB5AC2)

Table 19.126: Two Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of	Type of	Contact	Mandalasa	Degree of		0
Head	Push	N.O.	N.C.	Marking	Protec- tion	Number	Components
0	One flush green push* One extended red push**	1	1	*"I" (white) **"O" (white)	IP66 IP69K	XB5AL73415	(ZB5AZ105 + ZB5AL7341)

Table 19.127: Two Button Push Buttons, Momentary + one white central pilot light (screw clamp terminal connections)

•	•			,			
Shape of	Type of	Type of Contact		Marking	Marking Degree of		Catalog Number
Head	Push	N.O.	N.C.	Ĭ	Protection	Voltage	Ŭ
Telepolis .	One flush					24	XB5AW73731B5
0	green push*					120	XB5AW73731G5
Protected LED	One extended red push**	1	1	*"I" (white) **"O" (white)	IP66 IP69K	240	XB5AW73731M5

Table 19.128: Three Button Push Buttons, Momentary (screw clamp terminal connections)

Shape of	Type of	Type of Contact			Maddan and Oan Oalan	Ostala w Namahan
Head	Push	N.O.	N.C.	Protec- tion	Marking and Cap Color	Catalog Number
	Two flush pushes + one central	•		IP66	White "I" on green background White "II" on green background *White "Stop" on red background	XB5AA731327
	projecting red push*	2	1	IP69K	Black "→" on white background White "⇔" on black background *White "Stop" on red background	XB5AA711237

For Legends, see XB5 Legend Holders, page 19-61 and XB5 Legend Inserts, page 19-62. Caps, see XB5 Accessories, page 19-64.



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XB5AS 40 mm KR

XB5AS 40 mm TR



XB5AT 40 mm PP



XB5AD33



Table 19.129: Non-Illuminated Trigger Action Emergency Stop Push Buttons, Ø 40 mm (Red) (screw clamp terminal connections)

Shape of	Type of Push		of Contact	Catalog	Components
Head	77.	N.O.	N.C.	Number	
0	Trigger action push-pull [42]	1	1	XB5AT845	(ZB5AZ105 + ZB5AT84)
	Trigger action turn-to-release	1	1	XB5AS8445	(ZB5AZ105 + ZB5AS844)
	[42]	ı	2	XB5AS8444	(ZB5AZ104 + ZB5AS844)
	Trigger action Key release (No. 455) [42]	1	1	XB5AS9445	(ZB5AZ105+ ZB5AS944)
0	Trigger action Push-pull [42]	I	1	XB5AT842	(ZB5AZ102 + ZB5AT84)
	Trigger action Turn-to-release [42]	I	1	XB5A8442	(ZB5AZ102 + ZB5AS844)
	Trigger action Key release (No. 455) [42]	_	1	XB5AS9442	(ZB5AZ102 + ZB5AS944)

Table 19.130: Non-Illuminated Selector Switches and Key Switches (screw clamp terminal connections) $\it [43]$

Shape of Head	Type of Operator	Type Cont N.O.	of tact N.C.	Number and Type of Positions		Catalog Number	Components						
		1	_	2-maintained	\	XB5AD21	(ZB5AZ101 + ZB5AD2)						
	Standard	1	1	2-maintained	\searrow	XB5AD25	(ZB5AZ105 + ZB5AD2)						
	lever, black	2		3-maintained	\Rightarrow	XB5AD33	(ZB5AZ103 + ZB5AD3)						
		2	_	3-momentary to center	\Rightarrow	XB5AD53	(ZB5AZ103 + ZB5AD5)						
		1	_	2-maintained	\rangle	XB5AJ21	(ZB5AZ101 + ZB5AJ2)						
4	Extended lever, black		_	3-maintained	\Rightarrow	XB5AJ33	(ZB5AZ103 + ZB5AJ3)						
-				3-momentary to center	\Leftrightarrow	XB5AJ53	(ZB5AZ103 + ZB5AJ5)						
				0	$\langle \rangle$	XB5AG21	(ZB5AZ101 + ZB5AG2)						
		1	_	_	_	_	_	_	_	2-maintained	Service Servic	XB5AG41	(ZB5AZ101 + ZB5AG4)
	Key (No. 455)			2-momentary to left	\Diamond	XB5AG61	(ZB5AZ101 + ZB5AG6)						
-	.30)	2		2 maintained		XB5AG03	(ZB5AZ103 + ZB5AG0)						
			_	— 3-maintained	3	XB5AG33	(ZB5AZ103 + ZB5AG3)						

NOTE: The symbol Ω indicates key withdrawal position(s).

For Legends, see XB5 Legend Holders, page 19-61 and XB5 Legend Inserts Only, page 19-62









XB5EVG1





XB5AW31B5



XB5AW3465



XB5AW3335

For legends, see XB5 Legend Holders, page 19-61 and XB5 Legend Inserts Only, page 19-62.
For LEDs, see LED, BA9s Base, page 19-136.



Shape	of Head	Supply Voltage	Color	Monolithic Units	Complete Units	Complete Unit Components
			White	XB5EVB1	XB5AVB1	(ZB5AVB1 + ZB5AV013)
			Green	XB5EVB3	XB5AVB3	(ZB5AVB3 + ZB5AV033)
		24 Vac/Vdc	Red	XB5EVB4	XB5AVB4	(ZB5AVB4 + ZB5AV043)
		24 VaC/VuC	Orange	XB5EVB5	XB5AVB5	(ZB5AVB5 + ZB5AV053)
			Blue	XB5EVB6	XB5AVB6	(ZB5AVB6 + ZB5AV063)
			Yellow	XB5EVB8	_	_
		110–120 Vac	White	XB5EVG1	XB5AVG1	(ZB5AVG1 + ZB5AV013)
_			Green	XB5EVG3	XB5AVG3	(ZB5AVG3 + ZB5AV033)
	Protected ED		Red	XB5EVG4	XB5AVG4	(ZB5AVG4 + ZB5AV043)
			Orange	XB5EVG5	XB5AVG5	(ZB5AVG5 + ZB5AV053)
	_		Blue	XB5EVG6	XB5AVG6	(ZB5AVG6 + ZB5AV063)
			Yellow	XB5EVG8	_	_
			White	XB5EVM1	XB5AVM1	(ZB5AVM1 + ZB5AV013)
			Green	XB5EVM3	XB5AVM3	(ZB5AVM3 + ZB5AV033)
		230–240 Vac	Red	XB5EVM4	XB5AVM4	(ZB5AVM4 + ZB5AV043)
		230-240 Vac	Orange	XB5EVM5	XB5AVM5	(ZB5AVM5 + ZB5AV053)
			Blue	XB5EVM6	XB5AVM6	(ZB5AVM6 + ZB5AV063)
			Yellow	XB5EVM8	_	_

Table 19.132: Pilot Lights for BA9s Bulb (screw clamp terminal connections)

Shape of Head	Supply Voltage	Color	Catalog Number	Components	
Direct supp	ly, for BA9s (ii	ncandescent, LED, neon) V < 250 V, 2	.4 W bulb (bulb not	included) [45]	
Total and Sales		White	XB5AV61	(ZB5AV6 + ZB5AV01)	
	< 250 Vac/	Green	XB5AV63	(ZB5AV6 + ZB5AV03)	
	Vdc	Red	XB5AV64	(ZB5AV6 + ZB5AV04)	
				Yellow	XB5AV65
Transforme	r type with 1.2	VA, 6 V secondary. BA9s incandesce	ent bulb included		
		White	XB5AV31	(ZB5AV3 + ZB5AV01)	
	110–120		Green	XB5AV33	(ZB5AV3 + ZB5AV03)
	Vac 50/60 Hz	Red	XB5AV34	(ZB5AV3 + ZB5AV04)	
	00.00112	Yellow	XB5AV35	(ZB5AV3 + ZB5AV05)	

Table 19.133: Illuminated Push Buttons, Momentary (screw clamp terminal connections) [44]

Shape of Head	Descrip- tion	Type of Contact N.O. N.C.		Supply Voltage	Color of Push	Catalog Number	Components
Flush							
					White	XB5AW31B5	(ZB5AW0B15 + ZB5AW313)
				24 \/ee/	Green	XB5AW33B5	(ZB5AW0B35 + ZB5AW333)
				24 Vac/ Vdc	Red	XB5AW34B5	(ZB5AW0B45 + ZB5AW343)
_	ted				Yellow	XB5AW35B5	(ZB5AW0B55 + ZB5AW353)
	Protected '	1	1		Blue	XB5AW36B5	(ZB5AW0B65 + ZB5AW363)
		'	'		White	XB5AW31G5	(ZB5AW0G15 + ZB5AW313)
				440 400	Green	XB5AW33G5	(ZB5AW0G35 + ZB5AW333)
				110-120 Vac	Red	XB5AW34G5	(ZB5AW0G45 + ZB5AW343)
				140	Yellow	XB5AW35G5	(ZB5AW0G55 + ZB5AW353)
					Blue	XB5AW36G5	(ZB5AW0G65 + ZB5AW363)
	Direct				White	XB5AW3165	(ZB5AW065 + ZB5AW31)
	supply for BA9s			< 250 Vac/Vdc	Green	XB5AW3365	(ZB5AW065 + ZB5AW33)
	2.4 W max.	1	1		Red	XB5AW3465	(ZB5AW065 + ZB5AW34)
	bulb not included				Yellow	XB5AW3565	(ZB5AW065 + ZB5AW35)
				110–120 Vac 50/60 Hz	White	XB5AW3135	(ZB5AW035 + ZB5AW31)
	Transform-				Green	XB5AW3335	(ZB5AW035 + ZB5AW33)
	er type 1.2 VA. 6 V				Red	XB5AW3435	(ZB5AW035 + ZB5AW34)
	secondary.	1	1		Yellow	XB5AW3535	(ZB5AW035 + ZB5AW35)
	BA9s	l '	'		White	XB5AW3145	(ZB5AW045 + ZB5AW31)
	incandes- cent bulb			230–240 Vac	Green	XB5AW3345	(ZB5AW045 + ZB5AW33)
	included			50/60 Hz	Red	XB5AW3445	(ZB5AW045 + ZB5AW34)
					Yellow	XB5AW3545	(ZB5AW045 + ZB5AW35)
Extended							
					White	XB5AW11B5	(ZB5AW0B15 + ZB5AW113)
				24 Vac/	Green	XB5AW13B5	(ZB5AW0B35 + ZB5AW133)
				Vdc	Red	XB5AW14B5	(ZB5AW0B45 + ZB5AW143)
	eted	ted 1			Yellow	XB5AW15B5	(ZB5AW0B55 + ZB5AW153)
	protected.		1		Blue	XB5AW16B5	(ZB5AW0B65 + ZB5AW163)
	LED	'	'		White	XB5AW11G5	(ZB5AW0G15 + ZB5AW113)
				110–120	Green	XB5AW13G5	(ZB5AW0G35 + ZB5AW133)
				Vac	Red	XB5AW14G5	(ZB5AW0G45 + ZB5AW143)
					Yellow	XB5AW15G5	(ZB5AW0G55 + ZB5AW153)
					Blue	XB5AW16G5	(ZB5AW0G65 + ZB5AW163)

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XB5 Non-Illuminated Operators

Refer to Catalog DIA5ED2121213EN

XB5 Non-Illuminated Operators

Table 19.134: Non-Illuminated Operators. Momentary—Unmarked







ZB5AL3 ZB5AP1



ZB5CA2

Shape of Head	uminated Operators, Mome Type of Push	Cap Color	Catalog Number		
	Flush, without color cap [46]	_	ZB5AA0		
	Flush, with set of 6 color caps	6 colors [47]	ZB5AA9		
		White	ZB5AA1		
		Black	ZB5AA2		
		Green	ZB5AA3		
	Flush	Red	ZB5AA4		
		Yellow	ZB5AA5		
	_	Blue	ZB5AA6		
		Gray	ZB5AA8		
	-	White Green	ZB5AA18 ZB5AA38		
	Flush with transparent cap,	Red	ZB5AA48		
	for insertion of legend [48]	Yellow	ZB5AA58		
		Blue	ZB5AA68		
		White	ZB5AL1		
		Black	ZB5AL2		
	Extended	Green	ZB5AL3		
	-	Red Yellow	ZB5AL4 ZB5AL5		
	-	Blue	ZB5AL5 ZB5AL6		
		White	ZB5APA1		
		Black	ZB5APA2		
	Booted Flush (clear)	Green	ZB5APA3		
	Cap color unobscured	Red	ZB5APA4		
		Yellow	ZB5APA5		
		Blue	ZB5APA6		
	<u> </u>	White	ZB5AP1		
	Dooted Extended (clear)	Black	ZB5AP2		
((())	Booted Extended (clear) Cap color unobscured	Green Red	ZB5AP3 ZB5AP4		
	Cup color unoboculou	Yellow	ZB5AP5		
		Blue	ZB5AP6		
		White	ZB5AP1S		
		Black	ZB5AP2S		
	Booted (colored)	Green	ZB5AP3S		
	Cap color unobscured	Red	ZB5AP4S		
		Yellow	ZB5AP5S		
		Blue	ZB5AP6S		
	De stad (slass)	White	ZB5AP18		
	Booted (clear) for insertion of legend [48]	Green Red	ZB5AP38 ZB5AP48		
	Cap color unobscured	Yellow	ZB5AP58		
		Blue	ZB5AP68		
		White	ZB5AA14		
		Black	ZB5AA24		
	Flush Plunger	Green	ZB5AA34		
	(with high guard)	Red	ZB5AA44		
	_	Yellow	ZB5AA54		
		Blue White	ZB5AA64 ZB5CA1		
	 	Black	ZB5CA1 ZB5CA2		
		Green	ZB5CA3		
	Flush	Red	ZB5CA4		
		Yellow	ZB5CA5		
		Blue	ZB5CA6		
		White	ZB5CL1		
		Black Green	ZB5CL2		
	Extended	Red	ZB5CL3 ZB5CL4		
		Yellow	ZB5CL4 ZB5CL5		
		Blue	ZB5CL6		
		White	ZB5AA16		
		Black	ZB5AA26		
	Heads only	Green	ZB5AA36		
	Recessed (high guard)	Red	ZB5AA46		
		Yellow	ZB5AA56		
	+	Blue	ZB5AA66		
		White Black	ZB5CA16 ZB5CA26		
	Heads only	Green	ZB5CA26 ZB5CA36		
	Recessed (high guard)	Red	ZB5CA46		
		Yellow	ZB5CA56		
		Blue	ZB5CA66		

For Legends, see XB5 Legend Holders, page 19-61 and XB5 Legend Inserts Only, page 19-62

XB5 Non-Illuminated Operators

Refer to Catalog DIA5ED2121213EN



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ZB5AA432



ZB5AL232

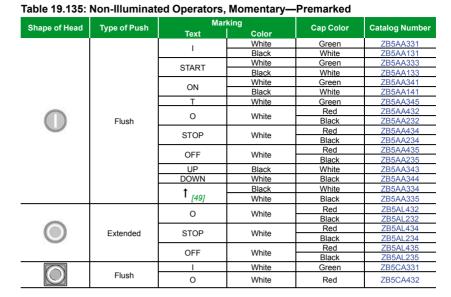


Table 19.136: Mushroom Heads, Momentary





ZB5AC2

Shape of Head	Diameter of Head	Color of Head	Catalog Number
		Black	ZB5AC24
		Green	ZB5AC34
	30 mm	Red	ZB5AC44
		Yellow	ZB5AC54
		Blue	ZB5AC64
		Black	ZB5AC2
		Green	ZB5AC3
	40 mm	Red	ZB5AC4
		Yellow	ZB5AC5
0.00		Blue	ZB5AC6
		Black	ZB5AR2
		Green	ZB5AR3
	60 mm	Red	ZB5AR4
		Yellow	ZB5AR5
		Blue	ZB5AR6





ZB5AR4

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XB5 Non-Illuminated Operators

Refer to Catalog DIA5ED2121213EN

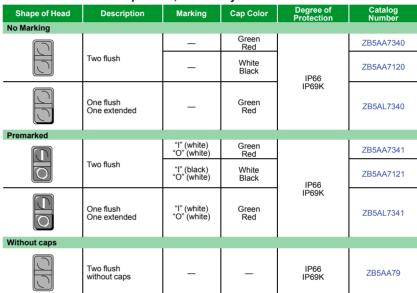


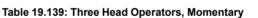
ZB5AH04



Shape of Head	Type of Push	Color of Push	Catalog Number
		White	ZB5AH01
		Black	ZB5AH02
	Flush	Green	ZB5AH03
	FluSII	Red	ZB5AH04
		Yellow	ZB5AH05
		Blue	ZB5AH06
		White	ZB5AH1
		Black	ZB5AH2
	Extended	Green	ZB5AH3
	Extended	Red	ZB5AH4
		Yellow	ZB5AH5
		Blue	ZB5AH6
		White	ZB5CH01
		Black	ZB5CH02
	Flush	Green	ZB5CH03
	FIUSII	Red	ZB5CH04
		Yellow	ZB5CH05
		Blue	ZB5CH06







Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number	
Premarked						
		"I" (white) "II" (white)	Green Green		ZB5AA73132	
		"←" (white) "→" (white)	Green Green		ZB5AA73133	
		"t" (white) "↓" (white)	Green Green		ZB5AA73134	
Two flush + one central	Two flush		"+" (white) "-" (white)	Green Green	IP66	ZB5AA73135
projecting red push marked "Stop"		"+" (black) "-" (black)	White White	IP69K	ZB5AA71115	
		"←" (black) "→" (white)	White Black		ZB5AA71123	
		"t" (black) "t" (white)	White Black		ZB5AA71124	
		"t" (white) "↓" (white)	Black Black		ZB5AA72124	
Without caps						
	Two flush without caps	_		IP66 IP69K	ZB5AA791	

For caps, see XB5 Accessories, page 19-64









9

PUSH BUTTONS AND OPERATOR INTERFACE

ZB5AC 30 mm

XB5 Emergency Stop Operators

Table 19.140: Mushroom Heads for Maintained Push Buttons



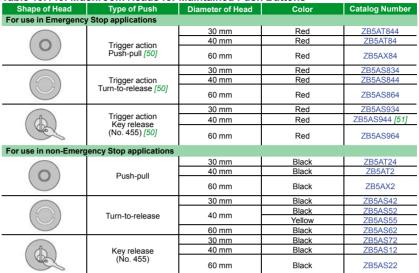


Table 19.141: Circular Legends for Emergency Stop Mushroom Heads (yellow background)



For Legends, see XB5 Legend Holders, page 19-61 and XB5 Legend Inserts, page 19-62



ZBY9320

- [50] Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. For emergency stop applications, always use a trigger action push button (per EN/IEC 13850).
- Other key numbers:
 - –key no. 421E: add the suffix 12 to the catalog number.
 - —key no. 458A: add the suffix 10 to the catalog number.
 - —key no. 520E: add the suffix 14 to the catalog number.
 - –key no. 3131A: add the suffix 20 to the catalog number.

Example: The catalog number for a Ø 40 mm red mushroom head for a trigger action, maintained push button, with release by key no. 421E becomes: ZB5AS94412.



XB5 Selector Switches Refer to Catalog DIA5ED2121213EN



ZB5AD• Standard Lever

ZB5AJX• Extended Lever

XB5 Selector Switches

Table 19.142: Non-Illuminated Selector Switches

Color	Number and Ty	pe of Positions	Standard Lever [52]	Extended Lever [52] Number
Black	2-maintained	\checkmark	ZB5AD2	ZB5AJ2
Black	2-momentary from right to left	\Diamond	ZB5AD4	ZB5AJ4
Black	3-maintained	\rightarrow	ZB5AD3	ZB5AJ3
Black	3-momentary to center	\Leftrightarrow	ZB5AD5	ZB5AJ5
Black	3-momentary from left to center	\checkmark	ZB5AD7	ZB5AJ7
Black	3-momentary from right to center	\checkmark	ZB5AD8	ZB5AJ8

Table 19.143: Non-Illuminated Key Switches

Type of Operator	Number and Type	of Positions	Catalog Number [53]
		% ✓	ZB5AG2
	2-maintained	₹ \$	ZB5AG4
		S	ZB5AG02
	2-momentary from right to left	\$	ZB5AG6
			ZB5AG0
Key (No. 455)		8	ZB5AG3
[53]	3-maintained	N	ZB5AG5
		\Rightarrow	ZB5AG9
NOTE: The symbol Ω indicates key withdrawal position(s).		\$	ZB5AG09
	3-momentary from left to center		ZB5AG1
	3-momentary to center		ZB5AG7
		\$	ZB5AG8
	3-momentary from right to center	V	ZB5AG08
		₹§	ZB5AG05

Table 19.144: Sequence of Contacts on Selector Switch Bodies

Half Tone							S	elect	or Sw	ritche	s					
Unit Type		2-position								3-	oositi	on				
Note: L=Left, C=Center, I O=Open, X=Cl	R=Right, osed		5		(5		()	(5°
Operator Plunger	Up															
Position	Down															
Contact Block Location	n	L	С	R	L	С	R	ш	C	R	ш	C	R	L	C	R
Contacts	N.O.	0	0	0	Χ	Χ	Χ	Χ	Χ	0	0	0	0	0	Χ	Χ
COHILACIS	N.C.	Χ	Χ	Χ	0	0	0	0	0	Χ	Χ	Χ	Х	Χ	0	0

For Selector Switch Sequence, see Table 19.97 Sequence of Contacts on Illuminated Selector Switch Bodies, page 19-36

- For colored lever, add the following code to the end of catalog number: 01—white, 03—green, 04—red, 05—yellow, 06—blue (Example: ZB5AD204).
- Other key numbers:
 - —key no. 421E: add the suffix 12 to the catalog number.

 - key no. 458A: add the suffix 10 to the catalog number.
 key no. 520E: add the suffix 14 to the catalog number.
 key no. 3131A: add the suffix 20 to the catalog number.

 - —key no. 8D1: add the suffix D to the catalog number.
 - Example: The catalog number for a head with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position, becomes: ZB5AG212









XB5AD912R1K







ZB5AD28

XB5 Specialty Operators

Table 19.145: Reset Operators

Shape of Head	Actuation	Distance	Text	Color	Catalog Number
Silape of Head	in	mm	lext	Color	Catalog Nulliber
Flush	Adjustable S	haft Shaft or	nly (short) is W404376	32	
				Green	XB5AA831
			Without	Red	XB5AA841
	0.67-4.72	17-120		Blue	XB5AA861
			0	Red	XB5AA84101
			R	Blue	XB5AA86102
			Without	Green	XB5AA832
				Red	XB5AA842
	4.72-10.12	120-257		Blue	XB5AA862
			0	Red	XB5AA84201
			R	Blue	XB5AA86202
Extended					
	0.67-4.72	17-120	0	Red	XB5AL84101
	4.72-10.12	120–257	0	Red	XB5AL84201

Table 19.146: Potentiometer Operator (with Mounting Collar)

Shape of Head	Description	Application	Catalog Number
	For potentiometer with shaft length 1.73 to 1.97 in.	For shaft Ø 0.25 in. (6.35 mm)	ZB5AD922
	(44 to 50 mm) (potentiometer not included)	For shaft Ø 0.24 in. (6 mm)	ZB5AD912

Table 19.147: Complete Potentiometers

Description	Resistance (k Ω)	Weight (kg/lb)	Catalog Number
+/- 10% linear mode precision	1	0.048/0.106	XB5AD912R1K
complete potentiometer with	4.7	0.048/0.106	XB5AD912R4K7
screw terminals	10	0.048/0.106	XB5AD912R10K
	47	0.048/0.106	XB5AD912R47K
	100	0.048/0.106	XB5AD912R100K
	470	0.048/0.106	XB5AD912R470K

Table 19.148: Joystick, 54 mm, Extended Operating Shaft. Do not use standard contact blocks ZBE10• (single) or ZBE20• (double)

Description	Contact Operation	Action	Catalog Number
		Maintained	XD5PA12
↑ ↓ 2 direction	1 step 1 N.O. contact per direction	Momentary	XD5PA22
A		Maintained	XD5PA14
4 direction	1 step 1 N.O. contact per direction	Momentary	XD5PA24

Table 19.149: Legends for Joystick

Description	For use with Color		Catalog Number
Legends	O disa ati a s	Black one side Red reverse	ZBG2201
30 x 48 mm for engraving	2 direction	White one side Yellow reverse	ZBG2401
Legends	4 direction	Black one side Red reverse	ZBG4201
48 x 48 mm for engraving		White one side Yellow reverse	ZBG4401

Table 19.150: Hour Counters (UR E191025, XHNR2 and XHNR8)

Characteristics	Supply Voltage	Catalog Number
Indication 0, 0000 0	12-24 Vdc or Vac, 50/60 Hz	XB5DSB
Indication 0–9999.9 (IP40 NEMA 1)	120 Vac, 60 Hz	XB5DSG
(II 40 NEW/CT)	230-240 Vac, 50 Hz	XB5DSM

Table 19.151: Buzzer (UR E191025, XHNR2 and XHNR8)

Characteristics	Supply Voltage	Catalog Number
85 db buzzer:4kHz, continuous or	24 Vdc or Vac, 50/60 Hz	XB5KSB
intermittent (IP40 NEMA 1)	120 Vac, 60 Hz	XB5KSG

Table 19.152: Two Position Toggle Switch

Shape of Head	Color	Type of Positions	Catalog Number
	Black	Maintained	ZB5AD28
	Black	Momentary	ZB5AD48

For legends, see XB5 Legend Holders, page 19-61, XB5 Legend Inserts, page 19-62, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-64.

Color of Lens

White Green

Red Yellow Blue

White Green Red

Amber Blue

White Green Red

Yellow Blue

Clear White

Green Red Amber Blue

Clear

White

Green Red

Catalog Number

ZB5AV013 ZB5AV033 ZB5AV043

ZB5AV053 ZB5AV063 ZB5AV013S ZB5AV033S ZB5AV043S

ZB5AV053S ZB5AV063S ZB5AV063 ZB5AV01 ZB5AV03 ZB5AV04 ZB5AV05 ZB5AV06

ZB5AV07

ZB5AV01S ZB5AV03S

ZB5AV05S ZB5AV05S ZB5AV06S

ZB5AV07S ZB5CV013



Refer to Catalog DIA5ED2121213EN

XB5 Pilot Lights

Shape of Head

Table 19.153: Pilot Light Heads

XB5 Pilot Lights



ZB5AV053

ZB5AV01



ZB5CV063



Protected LED only

ZB5CV013 ZB5CV043 ZB5CV053 Yellow Blue ZB5CV063 For legends, refer to XB5 Legend Holders, page 19-61, XB5 Legend Inserts, page 19-62, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-64

Table 19.154: Complete Bodies (Mounting Collar + Light Module for BA9s Incandescent Bulb, Neon or LED)

For use with Body Comprising Light Module

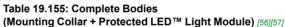
Protected LED only Fresnel (jeweled) lens [54]

For BA9s incandescent bulb, neon or LED only [55]

For BA9s incandescent bulb, neon or LED Fresnel (jeweled) lens [55]

Protected LED™ only

Description	Light Source	Supply Voltage (V)	Catalog Number
Screw clamp term	ninal connections		
Direct supply	BA9s bulb 2.4 W max. Not included [55]	<250	ZB5AV6
Direct supply	BA9s incandescent, bulb included	24 V 2 W	ZB5AV624
Direct supply	BA9s incandescent, bulb included	120 V 2.4 W	ZB5AV6120
Transformer type		110-120 Vac, 50/60 Hz	ZB5AV3
		230-240 Vac, 50/60 Hz	ZB5AV4
1.2 VA, 6 V	BA9s incandescent bulb included	400-50 Hz	ZB5AV5
secondary		440-480 Vac, 60 Hz	ZB5AV8
		550-600 Vac, 60 Hz	ZB5AV9



Light Source	Supply Voltage	Color of Light Source	Catalog Number
Screw clamp terminal connec	ctions		
	12 Vac/Vdc	White Green Red Yellow Blue	ZB5AVJ1 ZB5AVJ3 ZB5AVJ4 ZB5AVJ5 ZB5AVJ6
Protected"	24 Vac/Vdc	White Green Red Yellow Blue	ZB5AVB1 ZB5AVB3 ZB5AVB4 ZB5AVB5 ZB5AVB6
LED	24–120 Vac/Vdc	White Green Red Yellow Blue	ZB5AVBG1 ZB5AVBG3 ZB5AVBG4 ZB5AVBG5 ZB5AVBG6
	110–120 Vac	White Green Red Yellow Blue	ZB5AVG1 ZB5AVG3 ZB5AVG4 ZB5AVG5 ZB5AVG6
Flashing Protected	24 Vac/Vdc	White Green Red Yellow Blue	ZB5AV18B1 ZB5AV18B3 ZB5AV18B4 ZB5AV18B5 ZB5AV18B6
LED	110–120 Vac	White Green Red Yellow Blue	ZB5AV18G1 ZB5AV18G3 ZB5AV18G4 ZB5AV18G5 ZB5AV18G6





ZB5AV6

ZB5AV3



7B5AV••

For use in bright ambient conditions (i.e., sunlight).

^[55] Order bulb separately; see Table 19.184 BA9s Bulbs, page 19-65. For BA9 LED, see Table 19.402 Lamps, BA9s Base, page 19-137.

For Quick-Connect version, add "3" to the end of the catalog number Example: ZB5AVJ13 (Quick-Connect size 1 x 0.250" or 2 x 0.110"). [56] For 240 V LED, replace the "B" or "G" with "M". (Example: ZB5AVB1 (24V) to ZB5AVM1 (240V))







ZB5AW363







XB5 Illuminated Operators

Table 19.156: Heads for Momentary Illuminated Push Buttons

Shape of Head	Type of Push	Color	Catalog Number
Only use with Protected L			
• • • • • • • • • • • • • • • • • • • •	1 1	White	ZB5AW313
		Green	ZB5AW333
	Flush	Red	ZB5AW343
		Yellow	ZB5AW353
		Blue	ZB5AW363
		White	ZB5AW513
		Green	ZB5AW533
	Flush with clear boot	Red	ZB5AW543
		Yellow	ZB5AW553
		Blue	ZB5AW563
		White	ZB5AA18
		Green	ZB5AA38
	Flush for insertion of legend	Red	ZB5AA48
		Yellow	ZB5AA58
		Blue	ZB5AA68
		White	ZB5AW113
		Green	ZB5AW133
	Extended	Red	ZB5AW143
		Yellow	ZB5AW153
		Blue	ZB5AW163
		White	ZB5CW313
		Green	ZB5CW333
	Flush for insertion of legend	Red	ZB5CW343
		Yellow	ZB5CW353
		Blue	ZB5CW363
		White	ZB5CW113
		Green	ZB5CW133
	Extended	Red	ZB5CW143
		Yellow	ZB5CW153
		Blue	ZB5CW163
Only use with light modul	es for a BA9s incandescent bulb,	neon or LED	
		White	ZB5AW31
		Green	ZB5AW33
	Floris	Red	ZB5AW34
	Flush	Yellow	ZB5AW35
		Blue	ZB5AW36
		Clear	ZB5AW37
		White	ZB5AW11
70-20		Green	ZB5AW13
	Fidended	Red	ZB5AW14
	Extended	Yellow	ZB5AW15
		Blue	ZB5AW16
		Clear	ZB5AW17

Table 19.157: Illuminated Push-on/Push-off Operators

Shape of Head	Type of Push	Color of Lens	Catalog Number
nly use with Protected LED	D light modules		
		White	ZB5AH013
		Green	ZB5AH033
((())	Flush	Red	ZB5AH043
		Yellow	ZB5AH053
		Blue	ZB5AH063
		White	ZB5AH13
		Green	ZB5AH33
	Extended	Red	ZB5AH43
		Yellow	ZB5AH53
		Blue	ZB5AH63

For legends, refer to XB5 Legend Holders, page 19-61, XB5 Legend Inserts, page 19-62, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-64



XB5 Illuminated Operators

Refer to Catalog DIA5ED2121213EN





Table 19.158: Two Button with Clear Pilot Light, Momentary

Shape of Head	Description	Marking	Cap Color	Degree of Protection	Catalog Number
No Marking					
protected		_	Green Red		ZB5AW7A3740
	Two flush	-	White Black	IP66	ZB5AW7A1720
Protected O	One flush One extended	-	Green Red	IP69K	ZB5AW7L3740
Premarked					
protected	Two flush	"I" (white) "O" (white)	Green Red	IP66	ZB5AW7A3741
	Two nusn	"I" (black) "O" (white)	White Black		ZB5AW7A1721
LED 0	One flush One extended	"I" (white) "O" (white)	Green Red		ZB5AW7L3741
Protected D	Two flush	"t" (black) "t" (white)	White Black	IP69K	ZB5AW7A1724
Protected D	Two flush	"+" (black) "-" (black)	White White		ZB5AW7A1715
Without caps					
Two flush without caps		_	_	IP66, IP69K	ZB5AW7A9

Table 19.159: Heads for Maintained Illuminated Push Buttons

Shape of Head	Type of Push	Color	Catalog Number			
Only use with Protected LED light modules						
	Turn-to-Release Mushroom (40 mm)	White	ZB5AW713			
		Green	ZB5AW733			
		Red	ZB5AW743			
		Yellow	ZB5AW753			
		Blue	ZB5AW763			

Table 19.160: Emergency Stop, Trigger Action and Mech Latching Push Button with Mech State Indicator for Elevator Inspection Box Applications—Heads Only

Shape of Head	Type of Reset	Color	Catalog Number
GOOD	Push-pull (40 mm)	Red	ZB5AT8643M

NOTE: ZB5AT8643M not to be used with ZBZ16* guard.

Table 19.161: Illuminated Selector Switches, Standard Lever

Shape of Head	Number and Type of Position	Catalog Number [58]	
Only use with Protect	ted LED light modules		
	2-maintained	\searrow	ZB5AK12∙3
	2-momentary from right to left	\Diamond	ZB5AK14●3
	3-maintained	\rightarrow	ZB5AK13∙3
	3-momentary to center	\Rightarrow	ZB5AK15●3
	3-momentary from right to center	$\downarrow \downarrow$	ZB5AK18∙3
	3-momentary from left to center	\checkmark	ZB5AK17∙3

Table 19.162: Sequence of Contacts on Selector Switch Bodies

Heit Tone			Selector Switches													
Unit Type				2-po	sition						3-	oositi	on			
Note: L=Left, C=Center, O=Open, X=Cl	R=Right, osed		5		(5°		()	(
Operator Plunger	Up															
Position	Down															
Contact Block Location	n	L	С	R	L	С	R	L	С	R	L	С	R	L	С	R
Contacts	N.O.	0	0	0	Х	Х	Χ	Χ	Χ	0	0	0	0	0	Χ	Χ
	N.C.	Χ	Х	Х	0	0	0	0	0	Χ	Χ	Χ	Χ	Χ	0	0

For legends, see XB5 Legend Holders, page 19-61, XB5 Legend Inserts, page 19-62, and Table 19.179 Sheets of Legends for Push Buttons, Switches, and Pilot Lights, page 19-64.

For Caps, see Table 19.189 Lens Caps, page 19-67



ZB5AW7•



ZB5AT8643M



XB5 Electrical Components

Refer to Catalog DIA5ED2121213EN



XB5 Electrical Components

NOTE: For the Quick-Connect version, add the numeral **3** to the end of the number. Example: ZB5AZ101**3** (Quick-Connect size 1 x 0.250" or 2 x 0.110").



(Mounting Collar with Contact Blocks) [59] [60] [61]

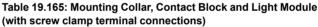
Description	Type of	Catalog Number	
Description	N.O.	N.C.	Catalog Number
	1	_	ZB5AZ101
	_	1	ZB5AZ102
Screw clamp terminal	2	_	ZB5AZ103
connections	_	2	ZB5AZ104
	1	1	ZB5AZ105
	1	2	ZB5AZ141



(Mounting Collar + Single Contact Block + Light Module with Protected LED™)

	Type of Contact [62]			Supply Voltage [63]		
Light Source			Color	24 Vac/Vdc	110-120 Vac	
	N.O.	N.C.			Number	
Screw clamp terr	ninal conn	ections				
			White	ZB5AW0B11	ZB5AW0G11	
			Green	ZB5AW0B31	ZB5AW0G31	
	1	_	Red	ZB5AW0B41	ZB5AW0G41	
			Yellow	ZB5AW0B51	ZB5AW0G51	
			Blue	ZB5AW0B61	ZB5AW0G61	
			White	ZB5AW0B12	ZB5AW0G12	
		1	Green	ZB5AW0B32	ZB5AW0G32	
24	_		Red	ZB5AW0B42	ZB5AW0G42	
Protected '			Yellow	ZB5AW0B52	ZB5AW0G5	
Protes			Blue	ZB5AW0B62	ZB5AW0G62	
1 1			White	ZB5AW0B13	ZB5AW0G13	
		_	Green	ZB5AW0B33	ZB5AW0G33	
25.0	2		Red	ZB5AW0B43	ZB5AW0G43	
			Yellow	ZB5AW0B53	ZB5AW0G53	
			Blue	ZB5AW0B63	ZB5AW0G63	
			White	ZB5AW0B15	ZB5AW0G15	
			Green	ZB5AW0B35	ZB5AW0G35	
	1	1	Red	ZB5AW0B45	ZB5AW0G45	
			Yellow	ZB5AW0B55	ZB5AW0G55	
			Blue	ZB5AW0B65	ZB5AW0G65	

For LEDs, see LED, BA9s Base, page 19-136.



Supply	Light Source	Supply Voltage	Type of Contact [62]		Color of Light Source	Catalog Number		
			N.O.	N.C.	Courte			
Screw clamp ter	Screw clamp terminal connections							
	BA9s 2.4 W max. bulb	< 250 Vac/ Vdc	1	_	_	ZB5AW061		
Direct supply			ı	1	_	ZB5AW062		
Direct supply	Not included		2	ı	-	ZB5AW063		
	[64]		1	1	_	ZB5AW065		
Transformer	BA9s 50/60 Hz 1 1 — ZE		1	ı	_	ZB5AW031		
type			1	1	-	ZB5AW035		
1.2 VA, 6 V		ZB5AW041						
secondary	Daib iriolaaca	50/60 Hz	1	1	_	ZB5AW045		





ZB5AW0••1





[59] For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZB5AZ1029).

^[60] Electrical components with connection by printed circuit board pins are available. Refer to Catalog9001CT0001 for more information.

Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001 for more information. Can be fitted with additional contact blocks, see Table 19.167 Add-On Contact Blocks, page 19-59. [61]

^[62]

For 240V LED, replace the "B" or "G" with "M". (Example: change "ZB5AW0B11 (24 V) to ZB5AW0M11 (240 V)) [63]

^[64] Order bulbs separately, see Table 19.184 BA9s Bulbs and Associated Accessories, page 19-65



XB5 Electrical Components

Refer to Catalog DIA5ED2121213EN





ZBE101



ZBE203



Table 19.166: Body/Mounting Collar

For use with	Catalog Number
Electrical block (contact or light module)	ZB5AZ009

Table 19.167: Add-On Contact Block (with screw clamp terminal connections) [65]

[00]					
Description		Type o	of Contact	Catalog Number	
Description		N.O.	N.C.	Catalog Nulliber	
Standard single contact	Standard single contact blocks/67]/68]		_	ZBE101	
Otandard Single Contact	biocksjorjjooj	_	1	ZBE102	
		2	_	ZBE203	
Standard double contact	t blocks[67][68]	_	2	ZBE204	
		1	1	ZBE205	
Special contact blocks for low-power switching		1	_	ZBE1016	
[69]	[69]		1	ZBE1026	
	Dusty environment	1		ZBE1016P	
Low-power switching	[69] (IP5X, 50 μm dust)	_	1	ZBE1026P	
	Early make N.O.	1	-	ZBE201	
Staggered contacts	Late break N.C.	_	1	ZBE202	
	Overlapping N.O. + N.C.	1	1	ZB4BZ106	
	Staggered N.O. + N.O.	_	2	ZB4BZ107	

Table 19.168: Light Modules (with screw clamp terminal connections)[65][66]

			,		
Description	Supply Voltage	Color of Light Source	Catalog Number		
		White	ZBVJ1		
		Green	ZBVJ3		
	12 Vac/Vdc	Red	ZBVJ4		
		Yellow	ZBVJ5		
		Blue	ZBVJ6		
		White	ZBVB1		
		Green	ZBVB3		
	24 Vac/Vdc	Red	ZBVB4		
		Yellow	ZBVB5		
		Blue	ZBVB6		
protected.		White	ZBVG1		
Protecto		Green	ZBVG3		
1 []	110-120 Vac	Red	ZBVG4		
IED		Yellow	ZBVG5		
		Blue	ZBVG6		
		White	ZBVBG1		
		Green	ZBVBG3		
	24-120 Vac/Vdc	Red	ZBVBG4		
		Yellow	ZBVBG5		
		Blue	ZBVBG6		
		White	ZBVM1		
		Green	ZBVM3		
	230-240 Vac	Red	ZBVM4		
		Yellow	ZBVM5		
		Blue	ZBVM6		
Direct supply for BA9s 2.4 W max. bulb not included—see Table 19.184 BA9s Bulbs and Associated Accessories, page 19-65)	< 250 Vac/Vdc	_	ZBV6		

For LEDs, see LED, BA9s Base, page 19-136.

^[65] Electrical components with connection by printed circuit board pins are available. Refer to Catalog 9001CT0001 for more details.

^[66] [67] Electrical components with connection by plug-in connector are available. Refer to Catalog 9001CT0001 for more details. For Quick-Connect version add "3" to the end of the catalog number (Example: ZBE1013) (Quick-Connect size 1 x 0.250" or 2 x 0.110").

For Ring Tongue compatible blocks add "9" to the end of the catalog number (Example: ZBE1029). [68]

Cannot stack additional contact blocks onto these blocks.



ZBE1015



ZB4BZ1015

Table 19.169: Body/Mounting Collar

For use with	Catalog Number
Contact block or light module	ZB5AZ009

Table 19.170: Contact Blocks [70]

Spring Terminal Connections, Contacts for Standard Applications					
Description	Type of contact	N.O.	N.C.	Catalog Number	
	Single	1	_	ZBE1015	
	Sirigie	_	1	ZBE1025	
		1	_	ZB4BZ1015	
Contact blocks	Cincela with	_	1	ZB4BZ1025	
	Single with body/mounting collar	2	_	ZB4BZ1035	
	body/modificing contain	_	2	ZB4BZ1045	
		1	1	ZB4BZ1055	

Table 19.171: Light Modules [70]

Spring Terminal Connections			
Description	Supply voltage	Color of light source	Catalog Number
		White	ZBVJ15
		Green	ZBVJ35
	12 Vac/Vdc	Red	ZBVJ45
		Orange	ZBVJ55
		Blue	ZBVJ65
		White	ZBVB15
		Green	ZBVB35
tegral LED (to combine with eads for integral LED)	24 Vac/Vdc	Red	ZBVB45
		Orange	ZBVB55
protected "		Blue	ZBVB65
TOLEN		White	ZBVG15
I FD		Green	ZBVG35
	110-120 Vac	Red	ZBVG45
		Orange	ZBVG55
		Blue	ZBVG65
		White	ZBVM15
		Green	ZBVM35
	230-240 Vac	Red	ZBVM45
		Orange	ZBVM55
		Blue	ZBVM65



XB5 Legend Holders Refer to Catalog DIA5ED2121213EN







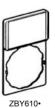
XB5 Legend Holders

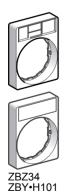
Table 19.172: Standard (30 x 40 mm) Legend Holders for 8 x 27 mm Legends

Description	Le	gend	Catalog Number	
Description	Color	Text	Catalog Nullibe	
Without legend [71]	_	_	ZBZ32	
With blank legend	Black or red background	_	ZBY2101	
(for engraving)	White or yellow background	_	ZBY4101	
Custom Legend (Specify Engraving) 2 lines of 11 characters (including spaces)	Black background	White	ZBY2002	
	Red background	White	ZBY2004	
	White background	Black	ZBY4001	
maximum per line	Yellow background	Black	ZBY4005	
•	- concerning reasons	O (black background)	ZBY2146	
		O (red background)	ZBY2931	
		I	ZBY2147	
With legend marked with international language	Black or red background [72]	ii	ZBY2148	
international language		O-I	ZBY2178	
		I-II	ZBY2179	
		I-O-II	ZBY2186	
		AUTO	ZBY2115	
		AUTO-HAND	ZBY2364	
		AUTO-O-HAND	ZBY2385	
		CLOSE	ZBY2314	
		DOWN	ZBY2308	
		EMERGENCY STOP	ZBY2330	
		FAST	ZBY2328	
		FORWARD	ZBY2305	
		FOR-REV	ZBY2371	
		HAND	ZBY2316	
		HAND-OFF-AUTO	ZBY2387	
		INCH	ZBY2321	
		JOG	ZBY2382	
		LEFT	ZBY2310	
With legend marked with	Black or red background[72]	OFF	ZBY2312	
English language		OFF-ON	ZBY2367	
		ON	ZBY2311	
		OPEN	ZBY2313	
		POWER ON	ZBY2326	
		RESET (red background)	ZBY2323	
		RESET (black background)	ZBY2322	
		REVERSE	ZBY2306	
		RIGHT	ZBY2309	
		RUN	ZBY2334	
		SLOW	ZBY2327	
		START	ZBY2303	
		STOP	ZBY2304	
		STOP-START	ZBY2366	
		UP	ZB12300 ZBY2307	





















rubic form of Lange (color of mini) Logeria frontation for for X = 1 mini Logeriac					
Description [73]	Color	Catalog Number			
Without legend insert	_	ZBZ33			
With blank legend insert	Black or red background	ZBY6101			
with blank legend insert	White or yellow background	ZBY6102			

Table 19.174: 30 x 40 mm legend holder (flush mounting with bezel) for 8 x 27 mm legends

•		
Description [73]	Color	Catalog Number
Without legend		ZBZ34
With blank legend	Black or red background	ZBY2H101
	White or yellow background	ZBY4H101

Table 19.175: 30 x 50 mm legend holder (flush mounting with bezel) for 18 x 27 mm legends

Description [73]	Color	Catalog Number
Without legend	_	ZBZ35
With blank legend	Black or red background	ZBY6H101
•	White or yellow background	ZBY6H102

XB5 Legend Inserts

Table 19.176: Marked Legends for 8 x 27 mm (for 30 x 40 mm legend holders

Color	Marking	Text	Catalog Number
	Ĭ	O (black background)	ZBY02146
		O (red background)	ZBY02931
		ī	ZBY02147
	International	İ	ZBY02148
		O-I	ZBY02178
		I-II	ZBY02179
		O (black background) O (red background) I I O-I III O-I III I-O-II AUTO AUTO-HAND AUTO-HAND CLOSE DOWN EMERGENCY STOP FAST FORWARD FOR-REV HAND HAND-OFF-AUTO INCH JOG LEFT OFF OFF-ON ON OPEN POWER ON RESET (red background) RESYERSE RIGHT RUN SLOW START	ZBY02186
		AUTO	ZBY02115
		AUTO-HAND	ZBY02364
		AUTO-O-HAND	ZBY02385
		CLOSE	ZBY02314
		DOWN	ZBY02308
			ZBY02330
	English	FAST	ZBY02328
			ZBY02305
			ZBY02371
			ZBY02316
Black or red background			ZBY02387
[74]			ZBY02321
			ZBY02382
			ZBY02310
			ZBY02312
		OFF-ON	ZBY02367
			ZBY02311
			ZBY02313
			ZBY02326
		RESET (red background)	ZBY02323
		RESET (black background)	ZBY02322
		REVERSE	ZBY02306
		RIGHT	ZBY02309
		RUN	ZBY02334
		SLOW	ZBY02327
		START	ZBY02303
		STOP	ZBY02304
		STOP-START	ZBY02366
		UP	ZBY02307

Table 19.177: Legends for Customer Engraving (inserts only)

3, 3, 3,					
Description	For use with	Color	Text Color	Catalog Number	
0 07	30 x 40 mm legend holders	Black or red background	White	ZBY0101	
8 x 27 mm		White or yellow background	Black	ZBY0102	
40 07	30 x 50 mm legend holders	Black or red background	White	ZBY5101	
18 x 27 mm	30 x 30 min legend holders	White or yellow background	Black	ZBY5102	

Table 19 178: Legends for Factory Engraving (inserts only)

Table 13:176. Legends for I detory Englaving (inserts only)					
Description	For use with	Color	Text Color	Catalog Number	
8 x 27 mm Custom Legend/Insert Only (Specify Engraving) 2 lines of 11 characters (including spaces) maximum per line (Example: ZBY01002 marked "Robot")		Black background	White	ZBY01002	
	30 x 40 mm	Red background	White	ZBY01004	
	legend	White background	Black	ZBY01001	
	holders	Yellow background	Black	ZBY01005	

^[74] Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified above).



XB5 Legend Inserts

Refer to Catalog **DIA5ED2121213EN**

Table 19.178 Legends for Factory Engraving (inserts only) (cont'd.)

Description	For use with	Color	Text Color	Catalog Number
maximum ner line		Black background	White	ZBY05002
	30 x 50 mm legend holders	Red background	White	ZBY05004
		White background	Black	ZBY05001
	noiders	Yellow background	Black	ZBY05005



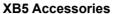


Table 19.179: Sheets of Legends for Push Buttons, Switches, and Pilot Lights

Description	Marking	Text	Catalog Number
	Blank Round		ZBY1101
	Blank-Square legends		ZBCY1101
		0	ZBY1146
		1	ZBY1147
	International	II	ZBY1148
Sheets of 66 circular peel-off transparent self-adhesive		III	ZBY1149
legends		STOP	ZBY1304
legenus		→	ZBY1912
	Facility	HAND	ZBY1316
		OFF	ZBY1312
	English	ON	ZBY1311
		START	ZBY1303

Table 19.180: Push Button Caps—Unmarked

For use with	Type of Push	Color	Catalog Number
		White	ZBA1
		Black	ZBA2
		Green	ZBA3
	Flush	Red	ZBA4
		Yellow	ZBA5
		Blue	ZBA6
ZB4BA0		6 colors [75]	ZBA9
push button heads		White	ZBL1
		Black	ZBL2
		Green	ZBL3
	Extended	Red	ZBL4
		Yellow	ZBL5
		Blue	ZBL6
		6 colors [75]	ZBL9

Table 19.181: Push Button Caps—Marked

	Town of Bush	Mar	king	0-11 0-1-11	Ontale w Namehou
For use with	Type of Push	Text [76]	Color	Cap Color	Catalog Number
		I [77]	White	Green	ZBA331
		. ,	Black	White	ZBA131
		START [77]	White	Green	ZBA333
			Black	White	ZBA133
		ON	White	Green	ZBA341
			Black	White	ZBA141
		UP [77]	Black	White	ZBA343
		DOWN [77]	White	Black	ZBA344
		① [77]	White	Green	ZBA345
ZB4BA0 push button heads	Flush	① [77]	White	Black	ZBA245
		\Diamond	White	Green	ZBA346
		•	Black	White	ZBA334 [78]
		I	White	Black	ZBA335 [78]
		O [77]	140.7	Red	ZBA432
		- 1	White	Black	ZBA232
		STOP [77]	White	Red	ZBA434
		. ,	vvriite	Black	ZBA234
		OFF	White	Red	ZBA435
			vville	Black	ZBA235
		R [77]	White	Blue	ZBA639

Set of 6 different colored caps: white, black, green, red, yellow, blue.
Start functions: white letters on black background. Stop functions: white letters on red background (unless otherwise specified). [76] [77]

Double injection molded marking.

Cap supplied not clipped-in, allowing orientation of arrow in any one of 4 directions: ↑, ↓, ←, or → [78]



XB5 Accessories Refer to Catalog DIA5ED2121213EN

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ZBA7235 ZBA7331





ZBA79





ZBZ3605



ZBZ1700













XBFX13 ZBZ8

Table 19.182: Multiple-head and XB5R Push Button Caps[79]

For use with	Type of Push	Marking	Cap Color	Catalog Number
		Unmarked		ZBA71
		"I" black	White	ZBA7131
		→ black	vvriite	ZBA7134
		"+" black		ZBA7138
		Unmarked		ZBA72
		"O" white		ZBA7232
	Flush	"+" white	Black	ZBA7233
Double push button		⇒ white		ZBA7235
heads		"I" white		ZBA7237
Tripe push button heads		Unmarked	Green	ZBA73
ZB4RZA0		"I" white		ZBA7331
ZB5RZA0		"+" white		ZBA7333
		û white		ZBA7335
		"II" white		ZBA7336
		Unmarked	Red	ZBA74
		"O" white	Reu	ZBA7432
		Unmarked	Yellow	ZBA75
		Unmarked	Blue	ZBA76
		Assorted	10 colors[80]	ZBA79

Table 19.183: Accessories

Description	Application	Color	Catalog Number
Padlocking kit Conforming to EN/ISO 13850 [81] (See legends below)	For Emergency Stop function only, with the following Ø 40 trigger-action push buttons: XBSAT8•, XBSAS8•, ZBSAS9•, ZBSAS8•, ZBSAS9•, ZBSAS9•, ZBSAS9•	Yellow	ZBZ3605
	For Emergency Stop function only with the	Chrome Plated	ZBZ1600
	following Ø 40 mm trigger-action push buttons: XB5AT8●, XB5AS8●, XB5AS9●, ZB5AT8●	Black	ZBZ1602
Metal guards	XB5AT8•, XB5AS8•, XB5AS9•, ZB5AT8•	Red	ZBZ1604
Padločkable	(except ZB5AT8643M), ZB5AS8●, ZB5AS9●	Yellow	ZBZ1605
		Blue	ZBZ1606
	For Emergency Stop function with XB4 and XB5 E-Stop 30 mm and 40 mm operators	Chrome plated	ZBZ1700
	Round Guard for ZB4BS5430, 2.5" dia EMO Mushroom Operators	Yellow	ZB4BZ1905
Plastic guards[82]	Narrow Flange Guard for ZB4BS5430 or ZB4BS84430 EMO Mushroom Operators[83]	Yellow	ZB4BZ2005
	Trigger Action Guard for ZB4BS84430, 3" dia EMO Mushroom Operators	Yellow	ZB4BZ2105
Padlockable flaps	For push buttons	Black	ZB4BZ62
Padiockable liaps	For push buttons	Red	ZB4BZ64
Plastic blanking plug, round [84]	For Ø 22 mm units with round heads	Black	ZB5SZ3
Plastic blanking plug, square [84]	For Ø 22 mm units with square heads	Black	ZB5SZ5
Square insert	To give square appearance to ZB5A round heads	Black	ZB5AZ31
Mounting nut	Operator		ZB5AZ901
Tool	For tightening mounting nut ZB5AZ901	_	ZB5AZ905
Plate	Anti-rotation of head	_	ZB5AZ902

Table 19.184: BA9s Bulbs and Associated Accessories

Description	Characteristics	Catalog Number
	6 V, 1.2 W	DL1CB006
Replacement bulbs (Type BA9s)	12 V, 2 W	DL1CE012
Incandescent	24 V, 2 W	DL1CE024
	120–130 V, 2.4 W	DL1CE130
Neon bulbs	120-130 V, 1.8 mA	DL1CF110
Neon buids	230–240 V, 1,8 mA	DL1CF220
Bulb extractor	_	XBFX13
Lens cap tightening tool	Illuminated push buttons with flush push	ZBZ8
Power driver bits for mounting and wiring (package of 5)	Cross headed screw (POZIDRIV type 1)	ZB4BZ905
Mounting Adapter	For mounting 22 mm push button in 30 mm KO	ZBZ41

Sold in lots of 10.

Set of 10 different caps: white, black, green, red, yellow, blue, white "I" on green background, black "I" on white background, white "O" on red background, white "O" on black background. Standard circular legends are not compatible with this product. Use special legends ZBY•T listed above. For additional information, refer to publication 9001DB0601R6/06.

Maximum panel thickness is 2.5 mm. [80]

^[81]

^[82]

^[83]

Mounting nut included with blanking plug.

XB5 Accessories

Refer to Catalog DIA5ED2121213EN







Description	For use with	Color & Material	Sold in Lots of	Catalog Number
Bellows seals for harsh	Any Harmony XB4 metal,	Red Silicone	2	ZBZ48
environments (Humidity, dust, high-pressure cleaning)	mushroom head push button Ø 40 mm or Ø 60 mm (except ZB4BR●16)	Black EPDM	2	ZBZ28
		Black EPDM	2	ZBZ58

Refer to Catalog DIA5ED2121213EN

XB5 Accessories



ZBDD2



ZBG455



ZBG455P





ZBA709





ZBV01●

Table 19.186: Boot for Standard Selector Switch Handle

Description	For use with	Catalog Number
Boot for standard handle	ZB4BD••	ZBD D2

Table 19.187: Replacement Keys

Description	Key Number	Catalog Number
	455	ZBG455
	421E	ZBG421E
Set of 2 keys	458A	ZBG458A
	520E	ZBG520E
	3131A	ZBG3131A
	455	ZBG455P
Cat of 2 kg/g	421E	ZBG421EP
Set of 2 keys, One of which is supplied booted (rubber boot)	458A	ZBG458AP
Cite of willout to supplied booted (rubbet boot)	520E	ZBG520EP
	3131A	ZBG3131AP

Table 19.188: Clear Boots

Description	For use with	Material	Catalog Number
	Booted push buttons with circular head		ZBPA
Single boots	Booted push buttons with circular head used in food industry applications		ZBP0A
Davible beets	Double-headed push buttons, two flush	Silicone	ZBA708
Double boots	Double-headed push buttons, one flush + one projecting		ZBA710
Triple boot	Triple-headed push buttons, two flush + one projecting		ZBA709

Table 19.189: Lens Caps		
For use with	Color	Catalog Number
Lens caps for Protected LED™ light modules		
Pilot lights	White Green Red Yellow Blue	ZBV0113 ZBV0133 ZBV0143 ZBV0153 ZBV0163
Illuminated push buttons with flush push	White Green Red Yellow Blue	ZBW9113 ZBW9133 ZBW9143 ZBW9153 ZBW9163
Illuminated push buttons with extended push	White Green Red Yellow Blue	ZBW9313 ZBW9333 ZBW9343 ZBW9353 ZBW9363
Lens caps for BA9 light modules		
Pilot lights	White Green Red Yellow Blue Clear	ZBV011 ZBV013 ZBV014 ZBV015 ZBV016 ZBV017
Illuminated push buttons with flush push	White Green Red Yellow Blue Clear	ZBW911 ZBW913 ZBW914 ZBW915 ZBW916 ZBW917
Illuminated push buttons with extended push	White Green Red Yellow Blue Clear	ZBW931 ZBW933 ZBW934 ZBW935 ZBW936 ZBW937
Square lens caps for Protected LED light modules (ZB5C operators only)		
Pilot lights	White Green Red Yellow Blue	ZBCV0113 ZBCV0133 ZBCV0143 ZBCV0153 ZBCV0163
Illuminated push buttons with flush push	White Green Red Yellow Blue	ZBCW9113 ZBCW9133 ZBCW9143 ZBCW9153 ZBCW9163
Illuminated push buttons with extended push	White Green Red Yellow Blue	ZBCW9313 ZBCW9333 ZBCW9343 ZBCW9353 ZBCW9363

Refer to Catalog DIA5ED2121213EN





XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons

Table 19.190: Ready-to-use Packs [86]



Description	Transmitter Type	Voltage Receiver V	Receiver Type	Catalog Number
Packs include: -1 push button/ Packs include: -1 push button/ Program		Programmable receiver with:	XB5RFA02	
transmitter - 1 receiver The push button	er Ø 22 mm metallic head + 1 set of 10 different colored caps - 2 relay outputs type RT 3A		- 2 relay outputs type RT 3A[88]	XB4RFA02
and receiver are factory-paired [87]	Ø 22 mm plastic head	_	Non-programmable receiver	XB5RFB01
ractory paired [01]	Ø 22 mm metallic head	24	with: - 1 relay output type RT 3A[89]	XB4RFB01
Packs include: - 1 push button/ transmitter in	Ø 22 mm plastic head + 1 set of 10 different colored caps	∼/ 24 to 240	Programmable receiver with: - 2 relay outputs type RT 3A[88]	XB5RMA04
handy box [90] - 1 receiver The push button and receiver are factory-paired [87]	Ø 22 mm metallic head + 1 operator head	 24	Non-programmable receiver with: - 1 relay output type RT 3A[89]	XB5RMB03

Table 19.191: Transmitter Components for Wireless, Batteryless Push Buttons

Description	Type of Push	Cap Color	Catalog Number
	1 radio frame sent at the push of the button	_	ZBRT1
Transmitter for wireless, batteryless push buttons [91] [92]	Dual Action: 1 radio frame sent at the push of the button 1 radio frame sent at therelease of the button	_	ZBRT2
Spring return push button heads	Plastic	Without cap [93]	ZB5RZA0
for transmitter ZBRT1	Metal	Without cap [93]	ZB4RZA0
		White	ZB5RTA1
	Plastic	Black	ZB5RTA2
		Green	ZB5RTA3
		Green with white "I"	ZB5RTA331
		Red	ZB5RTA4
Wireless, batteryless push		Red with white "O"	ZB5RTA432
buttons including:		Yellow	ZB5RTA5
 a transmitter fitted with 		Blue	ZB5RTA6
mounting collar		White	ZB4RTA1
 a spring return push button head with clipped-in cap [94] 		Black	ZB4RTA2
		Green	ZB4RTA3
	Metal	Green with white "I"	ZB4RTA331
	ivietai	Red	ZB4RTA4
		Red with white "O"	ZB4RTA432
		Yellow	ZB4RTA5
		Blue	ZB4RTA6







ZB5RTA4



^[87] For additional components, these devices can be field-paired.

^[88] Supplied with output function set to momentary. Outputs programmable to maintained and Start-Stop.

^[89] Non-programmable momentary output function.

^[90]

Supplied with a magnet.

Mounting collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.

Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible. [91]

^[92]

Cap to be ordered separately: see Caps for Harmony Push Button Heads ZB5RZA0 and ZB4RZA0. [93]

^[94] This cap is fitted by Schneider Electric and cannot be removed (risk of damage).



XB5R Plastic and XB4R Metal Wireless, **Batteryless Push Buttons**

Refer to Catalog DIA5ED2121213EN



ZBRRA













Table 19.192: Programmable Receivers

Description	Output Type	Voltage Receiver V	Catalog Number
Programmable receivers equipped with:	4 PNP outputs, 200 mA / 24 V	 24	ZBRRC
- 2 buttons ("Scroll-through", "Ok")	2 relay outputs type RT 3A [95]	~/ 24 to 240	ZBRRD
 6 indicating LEDs (power ON, outputs, signal strength) 	2 relay outputs type RT 3A [95]	∼/ 24 to 240	ZBRRA

NOTE: Also refer to Access Point for advanced features in programmable receivers.

Table 19.193: Caps for Harmony Push Button Heads ZB5RZA0 and ZB4RZA0

Description	Background Color	Marking	Sold in lots of	Catalog Number
		Without	10	ZBA71
	140.5	"I" (black)	10	ZBA7131
	White	"t" (black)	10	ZBA7134
		"+" (black)	10	ZBA7138
		Without	10	ZBA72
		"O" (white)	10	ZBA7232
	Black	"+" (white)	10	ZBA7233
Sets of 10 different colored caps with identical marking		"∜" (white)	10	ZBA7235
		"I" (white)	10	ZBA7237
[96]	Green	Without	10	ZBA73
		"I" (white)	10	ZBA7331
		"+" (white)	10	ZBA7333
		"t" white	10	ZBA7335
		"II" (white)	10	ZBA7336
	Red	Without	10	ZBA74
	Red	"O" (white)	10	ZBA7432
	Yellow	Without	10	ZBA75
	Blue Without		10	ZBA76
Set of 10 different colored caps with different markings [96]	White, black, green, red, yellow, blue, who background, black "I" on white background red background, white "O" on black bac	nd, white "O" on	10	ZBA79

Table 19.194: Boxes for Wireless, Batteryless Push Buttons

For use with:	Marking	Sold in lots of	Catalog Number
For mobile and fixed applications with	1 cut-out	1	ZBRM21
wireless and batteryless push buttons	2 cut-outs	1	ZBRM22
Support for tube or wall specific for ZBRM21 and ZBRM22	_	1	ZBRACS
For fixed or on board wireless and	1 cut-out	1	XALD01H7
batteryless pushbuttons	2 cut-outs	1	XALD02H7
	For mobile and fixed applications with wireless and batteryless push buttons Support for tube or wall specific for ZBRM21 and ZBRM22 For fixed or on-board wireless and	For mobile and fixed applications with wireless and batteryless push buttons Support for tube or wall specific for ZBRM21 and ZBRM22 For fixed or on-board wireless and	For mobile and fixed applications with wireless and batteryless push buttons Support for tube or wall specific for ZBRM21 and ZBRM22 For fixed or on-board wireless and

XB5R and XB4R Accessories

Table 19.195: Accessories

Description	For use with:	Marking	Sold in lots of	Catalog Number
External antenna [99]	Between transmitter and receiver, used to increase the range and/or get around obstacles	24 to 240 V - 5m cable - 1 power-ON LED - 2 LEDs reception/transmission	1	ZBRA1
Mounting collar	-	Plastic	10	ZB5AZ009
Woulding Collai		Metal	10	ZB4BZ009
Legend plate, 27 x 8 mm, for engraving	For adhering to handy box ZBRM01	Self-adhesive, blank, black background	10	ZBY0101T
External antenna access point 2 m/6.56 ft cable with 1 RF connector	Access point (ZBRN1 or ZBRN2) Used to increase the distance of transmission			ZBRA2

NOTE: The ZBRN2 has embedded communication port for Modbus Serial Line, where as ZBRN1 must be plugged with a communication module to support different protocols.

ZBRA2

ZBRA1

Supplied with output function set to momentary Outputs programmable to maintained and Start-Stop. Cap can be clipped-in at 90° steps, through 360°. Cannot be used for wired contacts (no cable gland outlet). [95]

^[96]

*[[]*97]

^[98] Box equipped with cable gland outlets, compatible with Harmony ZB5 push button heads.

Not wired to the receiver

XB5R Plastic and XB4R Metal Wireless, Batteryless Push Buttons

Refer to Catalog DIA5ED2121213EN





ZBRN1 and **ZBRN2** Access Points

The access point of Harmony wireless and batteryless range provides network connectivity openness by operating as an intermediate equipment between the transmiter and the PLC (Programmable Logic Controller). The access point receives radio signals from the transmitters and converts them to communication protocols. Based on the model, it is connected to the PLC using either RS485 Modbus Serial line or Modbus/TCP protocol.

The access point can be used with transmitters such as XB4R and XB5R wireless and batteryless push buttons, rope pull switch, mushroom head pushbutton (1), and all PLCs that support Modbus Serial line over RS485 or Modbus/TCP protocols.

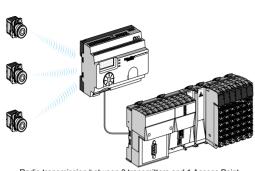
Depending on the application, an external or a relay antenna can be used to improve signal reception. An access point can support up to 60 radio transmitters



Configurable access points equipped with: - 7-segment display - jog dial - 8 indicating LEDs (power ON, functions mode, communication status, signal strength) - external antenna - external antenna - strength - external external - external - external external - external external - external external - external - external external - exte		Description	Data Function	Output Type	Receiver Voltage (V)	Catalog Number
mode, communication status, signal strength) - external antenna - ms to 1 s) - signal strength - ms to 1 s) - ms to 1	poin - 7-s - jog - 8 ir	ts equipped with: egment display dial idicating LEDs	(adjustable from 100	that provides connectivity for Modbus RS485		ZBRN2
protective plug	(power ON, functions mode, communication status, signal strength) - external antenna connector and	(adjustable from 100	communication module ZBRCETH		ZBRN1	

Table 19.197: Communication Module

Description	Characteristics	Communication Port	Catalog Number
Modbus/TCP network communication module	Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring and diagnostics	2 RJ45 connectors that provides connectivity for daisy chain and daisy chain loop operation	ZBRCETH



Radio transmission between 3 transmitters and 1 Access Point



ZBRN2



ZBRN1



ZBRCETH



Biometric Switches

Refer to Catalog DIA5ED21212EN

Stand-alone biometric switch (XB5S1/XB5S2)



Stand-alone USB biometric switch (XB5S3/XB5S4)



USB biometric switch dedicated to Schneider HMI (XB5S5)

Biometric Switches

The biometric switches of the Harmony® XB5S range are designed to control and secure access to systems and machines by checking users' authorization through fingerprint recognition.

The following types of biometric switches are available:

- · Stand-alone biometric switches
 - type XB5S1, with 2 fixed states (bistable)
 - type XB5S2, with pulse control (monostable)
- · Stand-alone USB biometric switches
 - type XB5S3, with 2 fixed states (bistable)
 - type XB5S4, with pulse control (monostable)
- USB biometric switches dedicated to Schneider HMI
 - type XB5S5, connected permanently with HMI

The biometric switches are aimed at 2 categories:

- · Administrators, who decide and manage the list of users
 - the only people who can record the fingerprints in the device memory
- Users, who are authorized to use the biometric switch as a control unit
 - at least 1 of their fingerprints should be recorded in the device memory
 - access is granted when the finger is placed on the sensing screen

The USB switches communicate with the PC/HMI via the USB port to manage the user database. This database can be visualized, saved, and duplicated by PC/HMI with XB5SSoft application [100] [101]. The fingerprint records can also be erased in the absence of users

The Schneider HMI [102] with VijeoDesigner software [103] enables the switches to authorize different access levels and trace HMI operations of each user.

The switch operates on 24 Vdc and provides protection against:

- Reverse polarity
- Overload and short-circuit (switching capacity ≤ 200 mA)

Mounting

The product is of monolithic design (a single plastic housing) and is mounted by means of a nut (hand-tightened without need for tools) in a standard 22.5 mm/0.886 in. diameter hole. It can be installed on a flat, horizontal, or vertical surface.

A protective cover is available as an accessory to protect the active face of the sensing screen. This cover is mounted using a self-adhesive hinge.

A Female/Female USB extension cable makes it possible for the USB biometric switch to have the female USB port within a 22 mm/0.866 in. diameter hole on the control panel front

Environment

- . Conformity to standards: UL, CSA, GOST, and CE
- · Product certifications:
 - CSA C22-2 No. 14
 - UL 508
 - IEC 61000-6-2 and IEC 61000-6-4
- Degree of protection conforming to standard IEC 60529:
 - IP 65
 - NEMA 12
- · Ambient air temperature:
 - For storage: -13 to 158°F (-25 to 70° C)
- For operation: 23 to 122°F (-5 to 50°C)

[100] Compatible with all versions of Harmony XB5SSoft application. The XB5SSoft is a freeware application and can be downloaded from our website www.schneider-electric.com.

The user database cannot be uploaded from USB biometric switch to the PC.

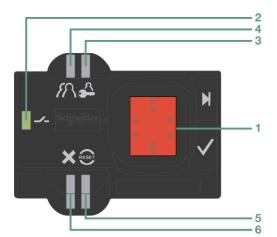
[102] Compatible with Magelis iPC, STU, OT, GXO, GT (except GT1000 series), GK, GH, and GTO models

Compatible with VijeoDesigner HMI editor software V6.1, Service pack 2.

Biometric Switches

Refer to Catalog DIA5ED2121212EN





XB5S1B••••



XB5S3B••••



ZB5SZ70



ZB5SZ72

Description

- The stand-alone biometric switch (XB5S1/XB5S2) consists of a dark gray housing, with the following on its front face:
 - A sensing screen 1 that allows the registration and subsequent recognition of the registered fingerprints,
 - A green LED output state indicator 2 that illuminates when the output is activated (solid-state N.O. contact),
 - An orange LED 3, indicating an administrator's "Registration" mode,
 - An orange LED 4, indicating an operator's "Registration" mode,
 - A red "RESET" LED 5 which indicates, in "Delete" mode, that the administrator is deleting all or part of the memory,
 - A red LED 6 which flashes when the reader is presented with an "unrecognized" fingerprint or in the event of incorrect operation.
- The stand-alone USB biometric switch (XB5S3/XB5S4) consists of a dark gray
 housing with a sensing screen 1 for fingerprints, a green LED 2 for indicating the
 output state, and a red LED 6 for the unrecognized fingerprint on its front face.
- The USB biometric switch dedicated to Schneider HMI (XB5S5) consists of a dark gray housing with a sensing screen 1 for fingerprints on its front face.

Table 19.198: Biometric Switch Catalog Numbers

Description	Connection	Catalog Number
Bistable biometric switch 24 V DC PNP output	By 2 m/6.56 ft cable	XB5S1B2L2
	By M12 connector	XB5S1B2M12
Monostable biometric switch 24 V DC PNP output	By 2 m/6.56 ft cable	XB5S2B2L2
	By M12 connector	XB5S2B2M12
Bistable USB biometric switch	By 2 m/6.56 ft cable	XB5S3B2L2
24 V DC PNP output	By M12 connector	XB5S3B2M12
Monostable USB biometric	By 2 m/6.56 ft cable	XB5S4B2L2
switch 24 V DC PNP output	By M12 connector	XB5S4B2M12
USB biometric switch dedicated to Schneider HMI 24 V DC	By 2 m/6.56 ft cable	XB5S5B2L2

Table 19.199: Accessories

14510 10:100: A0000001100				
Description	Function	Catalog Number		
Protective cover, translucent and self-adhesive	Protection of sensing screen	ZB5SZ70		
Mounting nut, Ø 22 mm/0.866 in.	Spare part	ZB5SZ71		
Legend plate, 27 x 8 mm/ 1.06 x 0.32 in., self-adhesive, blank, black background, for engraving	_	ZBY0101T		
Stainless-steel protective cover	Protects switch from outside elements and vandalism	ZB5SZ72		



XB7 Push Buttons Refer to Catalog DIA5ED2120503EN



XB7 Push Buttons

Table 19.200: Push Buttons Without Marking



Table 19.201: Push Buttons With Marking

Table 19.201. Push Buttons With Marking								
Shape	Type of	Type of	Contact	Mar	king	Color of	Sold in	
of Head			N.C.	Text	Color	Push Button	Lots of	Catalog Number
Spring re	turn push buttoi	n with marl	king					
		1	-	- 1	White	Green	10	XB7NA3131
		1	-	ll l	White	Green	10	XB7NA3136
		1	-	START	White	Green	10	XB7NA3133
		1	-	1	Black	White	10	XB7NA11343
		1	-	t	Black	White	10	XB7NA11341
		1	-	1	White	Black	10	XB7NA21343
		1	-	Û	White	Black	10	XB7NA21341
		_	1	0	White	Red	10	XB7NA4232
	Fluck	-	1	STOP	White	Red	10	XB7NA4234
	Flush	2	-		White	Green	10	XB7NA3331
_		2	-	- 11	White	Green	10	XB7NA3336
		2	-	START	White	Green	10	XB7NA3333
		1	1	0	White	Red	10	XB7NA4532
		1	1	STOP	White	Red	10	XB7NA4534
		1	1	1	Black	White	10	XB7NA15343
		1	1	t	Black	White	10	XB7NA15341
		1	1	Û	White	Black	10	XB7NA25343
		1	1	Û	White	Black	10	XB7NA25341
_		_	1	0	White	Red	10	XB7NL4232
	Projecting	-	1	STOP	White	Red	10	XB7NL4234
	Frojecting	1	1	0	White	Red	10	XB7NL4532
_		1	1	STOP	White	Red	10	XB7NI 4534



XB7NA31



XB7NL4●



XB7NH2●



XB7NA3133



XB7NA4234



XB7NL4232

XB7 Illuminated Push Buttons with Projecting Push

Table 19.202: With Integral LED





Table 19.203: With BA 9s Base Fitting [105]

Shape of	Type of push	Type of contact		Color of lights	Sold in lots of	Catalog Number
head	Type of pusit	N.O.	N.C.	Color of lights	Sold in lots of	250 V ∼
		1	_	Green	10	XB7NW3361
		1	-	Red	10	XB7NW3461
	Spring return	1	-	Orange	10	XB7NW3561
	Opring return	1	_	Blue	10	XB7NW3661
		1	-	Clear	10	XB7NW3761
		1	_	Yellow	10	XB7NW3861
	Latching	1	_	Green	10	XB7NJ0361
		1	-	Red	10	XB7NJ0461
		1	-	Orange	10	XB7NJ0561
		1	_	Blue	10	XB7NJ0661
		1	_	Clear	10	XB7NJ0761
		1	_	Yellow	10	XB7NJ0861
			•			



XB7 Pilot Lights

Table 19.204: With Integral LED

Shape of	Type of light		Sold in	Catalog Number by supply voltage [106]		
head	source (included)	Color of lens	lots of	24 V ∼/ 	120 V \sim	230 V ∼
Inte		Green	10	XB7EV03BP	XB7EV03GP	XB7EV03MP
		Red	10	XB7EV04BP	XB7EV04GP	XB7EV04MP
	Into aval I CD	Yellow	10	XB7EV05BP	XB7EV05GP	XB7EV05MP
	integral LED	Blue	10	XB7EV06BP	XB7EV06GP	XB7EV06MP
		Clear	10	XB7EV07BP	XB7EV07GP	XB7EV07MP
		Orange	10	XB7EV08BP	XB7EV08GP	XB7EV08MP
	source (included)	Red Yellow Blue Clear	10 10 10 10 10 10	XB7EV03BP XB7EV04BP XB7EV05BP XB7EV06BP XB7EV07BP	XB7EV03GP XB7EV04GP XB7EV05GP XB7EV06GP XB7EV07GP	XB7EV03 XB7EV04 XB7EV05 XB7EV06 XB7EV07



Shape of	Supply	Color of lens	Sold in	Catalog Nu	Number[106]	
head	Supply	Color of lens	lots of	With bulb	Without bulb	
	\A(!4 !-4 f	Green	10	XB7EV73P	XB7EV730P	
	With resistor, for 130 V. 2.6 W	Red	10	XB7EV74P	XB7EV740P	
	bulb	Yellow	10	XB7EV75P	XB7EV750P	
	Supply voltage: 230 V ~, 50-60 Hz	Blue	10	XB7EV76P	XB7EV760P	
		Clear	10	XB7EV77P	XB7EV770P	
		Orange	10	XB7EV78P	XB7EV780P	
	Direct for BA 9s base fitting incandescent	Green	10	_	XB7EV63P	
		Red	10	_	XB7EV64P	
		Yellow	10	_	XB7EV65P	
	bulb	Blue	10	_	XB7EV66P	
	Supply voltage:	Clear	10	-	XB7EV67P	
	≤ 250 V [107]	Orange	10	_	XB7EV68P	



XB7NW3361



XB7EV08●P



XB7EV75F

[105] Bulb. 1.2 W maximum, to be ordered separately

For Faston connection version (1 x 6.35 mm and 2 x 2.8 mm), add the number "3" to the end of the reference. Example: XB7EV07BP becomes XB7EV07BP3. [106]

[107] Bulb characteristics for direct supply pilot lights: 250 V, 2.6 W.

^[104] All product references ending in "1" are for products with "NO" contacts (example: XB7NW34B1). All product references ending in "2" are for products with "NC" contacts (example: XB7NW34B2).



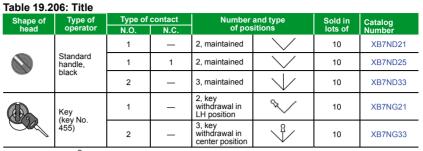
XB7 Push Buttons Refer to Catalog DIA5ED2120503EN

New!

XB7 Selector Switches and Key Switches







NOTE: The symbol Ω indicates key withdrawal position(s).



XB7 Mushroom Head Push Buttons

Table 19.207: Ø 40 mm Emergency Stop Trigger Action and Mechanically Latching Mushroom Head Pushbuttons

Shape of	Shape of Type of push Standards Type of conta		f contact	Color	Sold in	Catalog	
head	head Type of push	Stanuarus	N.O.	N.C.	COIOI	lots of	Numbers
			_	1	Red	10	XB7NS8442
	Turn to release		1	1	Red	10	XB7NS8445
	Turri to release	EN/IEC 60204-1, EN/ISO 13850,	-	2	Red	10	XB7NS8444
	Push-pull	EN/IEC 60947-5- 5,	-	1	Red	10	XB7NT842
()			1	1	Red	10	XB7NT845
	r usii-puii	Machinery directive 2006/42/ EC	-	2	Red	10	XB7NT844
		and UL	ı	2	Red	10	XB7NS9444
	Key release (n° 455)	and OL	ı	1	Red	10	XB7NS9445



XB7NS84

ZBY9330

Table 19.208: Circular Legends, Yellow, For Mushroom Head Push Buttons

Used for "Emergency Stop" function [108]						
Conforming to Standards	Diameter (mm)	Marking on Yellow Background	Catalog Number			
	60	ARRET D'URGENCE	ZBY9130			
		NOT-HALT	ZBY9230			
		PARADA DE EMERGENCIA	ZBY9430			
EN/IEC 60204-1 and		ARRESTO DE EMERGENZA	ZBY9630			
EN/ISO 13850 [108]	00	ARRET D'URGENCE	ZBY8130			
		EMERGENCY STOP	ZBY8330			
	90	PARADA DE EMERGENCIA	ZBY8430			
		ARRESTO DE EMERGENZA	ZBY8630			





XB7 Legend Holders and Legends

Table 19.209: Standard (30 x 40 mm) Legend Holders for 8 x 27 mm Legends

Text	Sold in lots of	Catalog Number
Without legend	10	ZBZ32



	3 (
Text	Sold in lots of	Catalog Number
With blank legend		
Without legend	10	ZBY2101
With marked legend (sold singly)		
Start functions: White characters on black background.		

Stop functions: White characters on red background.				
Text	Catalog Number			
Auto	ZBY2115			
Down	ZBY2308			

Auto	ZBY2115
Down	ZBY2308
Forward	ZBY2305
Hand	ZBY2316
Inch	ZBY2321
Left	ZBY2310
Off	ZBY2312
On	ZBY2311
Power on	ZBY2326

Text	Catalog Number
Reset	ZBY2323
Reverse	ZBY2306
Right	ZBY2309
Start	ZBY2303
Stop	ZBY2304
Up	ZBY2307
0	ZBY2146
T	ZBY2147
O-I	ZBY2178

Table 19.211: Standard (30 x 50 mm) Legend Holders for 18 x 27 mm Legends

Text	Sold in lots of	Catalog Number
Without legend	10	ZBZ33



XB7 Accessories

Table 19.212: XB7 Push Button Accessories





18516 13:210. DA 33 Builds						
Description	Voltage (V)	Power (W)	Sold in lots of	Catalog Number		
Incandescent bulbs,	6	1.2	10	DL1CB006		
long life	24	2.0	10	DL1CE024		
Ø 11 mm max. length 28 mm max.	130	2.6	10	DL1CE130		
Naan hulba	120-130	_	10	DL1CF110		
Neon bulbs	230-240	_	10	DL1CF220		



ZB5AZ902











Type K Heavy Duty Operators

Class 9001 / Refer to Catalog 9001CT1103

Type K Heavy Duty Operators

Table 19.214: Non-Illuminated Momentary Push Button Operators

De	scription	Color	Operator with 1 N.O. and 1 N.C. Contact (KA1) [1]	Operator with 1 N.O. Contact (KA2) [1]	Operator with 1 N.C. Contact (KA3) [1]	Operator Only with No Contacts [1]
		Black	KR1BH13	KR1BH5	KR1BH6	KR1B
		Red	KR1RH13	KR1RH5	KR1RH6	KR1R
	Full Guard	Green	KR1GH13	KR1GH5	KR1GH6	KR1G
	Full Gualu	Universal [2]	KR1UH13	KR1UH5	KR1UH6	KR1U
9001KR1B		Other [3]	KR1∎H13	KR1∎H5	KR1∎H6	KR1∎
000	1	Black	KR3BH13	KR3BH5	KR3BH6	KR3B
		Red	KR3RH13	KR3RH5	KR3RH6	KR3R
	No Guard	Green	KR3GH13	KR3GH5	KR3GH6	KR3G
	No Guaro	Universal [2]	KR3UH13	KR3UH5	KR3UH6	KR3U
9001KR3B		Other [3]	KR3∎H13	KR3∎H5	KR3∎H6	KR3∎
300 H (10B	1	Black	KR2BH13	KR2BH5	KR2BH6	KR2B
		Red	KR2RH13	KR2RH5	KR2RH6	KR2R
	Extended Guard	Green	KR2GH13	KR2GH5	KR2GH6	KR2G
	Extended Guard	Universal [2]	KR2UH13	KR2UH5	KR2UH6	KR2U
9001KR2B		Other[3]	KR2∎H13	KR2∎H5	KR2∎H6	KR2∎
000 11(1/2)		Snap-In Plastic Mu	ushroom Button			
		Black	KR4BH13	KR4BH5	KR4BH6	KR4B
		Red	KR4RH13	KR4RH5	KR4RH6	KR4R
		Red [4]	KR4R05H13	KR4R05H5	KR4R05H6	KR4R05
	1-3/8 in. (35 mm)	Green	KR4GH13	KR4GH5	KR4GH6	KR4G
	Diameter	Other [3]	KR4∎H13	KR4∎H5	KR4∎H6	KR4∎
	Mushroom Button	Screw-On Mushro	om Button with Set Screw	Security, Plastic Head		
9001KR4B		Black	KR24BH13	KR24BH5	KR24BH6	KR24B
		Red	KR24RH13	KR24RH5	KR24RH6	KR24R
		Green	KR24GH13	KR24GH5	KR24GH6	KR24G
		Other[3]	KR24∎H13	KR24∎H5	KR24∎H6	KR24∎
		Screw-On Metal M	ushroom Button with Set	Screw Security		
	1-1/2 in. (40 mm)	Black	_			9001KR24BM
	Diameter	Red	_		_	9001KR24RM
9001KR24BM	Mushroom Button	Green	_	_	_	9001KR24GM
300 TKI (24 DIVI		Snap-In Plastic Mu	ushroom Button			
		Black	KR5BH13	KR5BH5	KR5BH6	KR5B
		Red	KR5RH13	KR5RH5	KR5RH6	KR5R
		Red [4]	KR5R05H13 [4]	KR5R05H5 [4]	KR5R05H6 [4]	KR5R05 [4]
	2-1/4 in. (57 mm)	Green	KR5GH13	KR5GH5	KR5GH6	KR5G
	Diameter	Other[3]	KR5∎H13	KR5∎H5	KR5∎H6	KR5∎
	Mushroom Button		om Button with Set Screw	• • • • • • • • • • • • • • • • • • • •		
9001KR5B		Black	KR25BH13	KR25BH5	KR25BH6	KR25B
		Red	KR25RH13	KR25RH5	KR25RH6	KR25R
		Green	KR25GH13	KR25GH5	KR25GH6	KR25G
		Other[3]	KR25∎H13	KR25∎H5	KR25∎H6	KR25∎
		Screw-On Metal M	lushroom Button with Set	Screw Security		
	2-3/8 in. (60 mm)	Black	_	_		9001KR25BN
	Diameter Mushroom Button	Red	_	_	_	9001KR25RN
0001KB35BM		Green	_	_	_	9001KR25GM
9001KR25BM	1	l .]			l

Table 19.215: Color Codes

Color	KR1, 2, 3 Place Color Code in Type Number	KR4, 5, 24, 25 Place Color Code in Type Number
Blue	L	L
Yellow	Υ	Y
White	W	_
Orange	S	S
Gray	E	_

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97. Contact blocks and legend plate not included unless otherwise noted.

When ordering, add prefix 9001 to the catalog number.

The universal push button operators contain one each of the following color inserts: black, red, green, yellow, orange, blue and white.

Choose color code from Table 19.217 Color Codes for Type K Operators, page 19-78.

Knob has the words "Emergency Stop" in raised letters highlighted in white for readability. [2] [3] [4]

Type K Heavy Duty Operators

Class 9001 / Refer to Catalog 9001CT1103



Table 19.216: 30 mm Multifunction Operators

	Description [5]	Color	With 2 N.C. Contacts (1 KA3, 1 KA5) [6]	With 1 N.O. & 1 N.C. Contact (1 KA1) <i>[6]</i>	Without Contacts [6] [7]
Non-Illuminated Push-Pull	Mushroom Operators				
	Position, Plastic Head 1-5/8 in. (40 mm), Screw-0n Momentary Pull Maintained Neutral Momentary Push [8]	Red Green Other [9]	KR8RH25 KR8GH25 KR8 ▼ H25	=	KR8R KR8G KR8▼
	2 Position, Plastic Head 1-5/8 in. (40 mm), Screw-0n Maintained Pull Maintained Push [10]	Red [11] Green Other [9]		KR9RH13 KR9GH13 KR9▼H13	KR9R KR9G KR9▼
KR9R94H13 Set Screw Style	2 Position , Plastic Head 1-5/8 in. (40 mm), Screw-0n Head with Set Screw Maintained Pull Maintained Push [10]	Red	_	KR9R94H13	KR9R94
-		Black	_		9001KR9BM94
	2 Position,	Red	_		9001KR9RM94
9001KR9RM94	Metal Head 1-1/2 in. (40 mm) Diameter	Green	_	_	9001KR9GM94
		Black	_		9001KR9BM95
E. I	2 Position.	Red	_		9001KR9RM95
0004//2020405	Metal Head 2-3/8 in. (60 mm) Diameter	Green	_	_	9001KR9GM95
9001KR9RM95			With 1 N.O. & 1 N.C.	With 2 N.O. & 2 N.C.	
	Description	Color	Contact (KA1)	Contacts (KA2)	Without Contacts
Non-Illuminated Turn-to-Re	lease Mushroom Operators				
9001KR16H2 Trigger Action	2 Position, Plastic Head Turn-to-Release Trigger Action	Red	KR16H13	KR16H2	KR16



9001KR9P1 1.625 in. Diameter Knob For 1-3/8 in. or 2-1/4 in. Diameter Knob [5] Includes Type KN379 Legend Plate Marked Pull To Start Push To Stop

Table 19.217: Color Codes for 30 mm Multifunction Operators ▼

Operators v					
Color	KR8, KR9				
Black [15]	В				
Red	R				
Green	G				
Blue	L				
Yellow	Y				
White	W				
Orange [15]	S				
Clear	С				
Amber	A				
Gray	_				

Screw-On Plastic Illum	ninated Push-Pull Mushroom	Operators [6] [12] [9	1	
Description [5]	Voltage	With Red Knob and 2 N.C. Contacts (1 KA3, 1 KA5)	With Other Color Knob and 2 N.C. Contacts (1 KA3, 1 KA5)	With Other Color Knob Without Contacts [7]
3 Position Illuminated Momentary Pull Maintained Neutral Momentary Push[8]	110-120 V, 50-60 Hz Other—Transformer, LED, Flashing [13] Other—Full Voltage, Resistor, Neon [14]	KR8P1RH25 KR8P ▲ RH25 KR8P ▲ RH25	KR8P1▼H25 KR8P▲▼H25 KR8P▲▼H25	KR8P1▼ KR8P▲▼ KR8P▲▼
Description [5]	Voltage	With Red[11] Knob & 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob and 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob Without Contacts
2 Position Illuminated Maintained Pull Maintained Push	110–120 V, 50–60 Hz Other—Transformer, LED, Flashing [13] Other—Full Voltage, Resistor, Neon [14]	KR9P1RH13 KR9P▲RH13 KR9P▲RH13	KR9P1▼H13 KR9P▲▼H13 KR9P▲▼H13	KR9P1 ▼ KR9P ▲ ▼ KR9P ▲ ▼

Table 19.218: Contact Sequences

		9001 KR8RH1 or H13		
		Pull	Ctr	Push
(KA1)	KA3	X	0	0
(KAT)	KA2	0	0	X

		9001 KR8RH25		
	KA3	X	0	0
	KA5	X	Χ	0
	KA2	0	0	X

NOTE: To select contact blocks, light modules, and accessories, see Type KA Contact Blocks, page 19-95.

- [5] For 1-3/8 in. or 2-1/4 in. Dia. Knob:
 - a) Order Type -20 or -21 knob from Additional Accessories for Type K and SK Operators, page 19-105.
 - b) Order 9001K54 adapter—allows Type -20 or -21 knob to fit on push pull operators. Voids UL and NEMA 6 rating.
 c) Can order assembled operator by adding color code to Type -20 or -21. Example: 9001KR9R would be 9001KR9R20 or 9001KR9R21.
- [6] When ordering, add prefix 9001 to the catalog number.
- [7] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the chosen "H" number to the end of the operator.
- [8] For contact sequences, see Table 19.218 Contact Sequences, page 19-78
- [9] ▼ Choose one color from the Color Codes table here, and insert the color code in Type number. Example: KR9 with a yellow knob = KR9Y
- [10] For color codes, see Color Codes for 30 mm Multifunction Operators, page 19-78.
- [11] To obtain a red knob with "Push Emergency Stop" printed on the red knob—substitute "R05" in place of "R"
- [12] Add the voltage assembly code as chosen from Table 19.274 Standard Light Modules for Types K, SK, and KX Control Units, page 19-96. Example: KR8P with a 277 V 50-60 Hz voltage = KR8P8.
- [13] The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob.
- [14] On neon light modules, use clear knobs only.
- [15] These colors are not available on illuminated push-pull operators.



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Type K Heavy Duty Operators

Class 9001 / Refer to Catalog 9001CT1103

Table 19.219: Illuminated Momentary Push Button Operators

Description		Voltage and Style Frequency		With Red Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [16]	With Green Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [16]	With Other Color Cap Without Contact Block [1] [18] [16]	
		110-120 V, 50-60 Hz	Transformer	K1L1RH13	K1L1GH13	K1L1▼	
		220–240 V, 50–60 Hz	Transformer	K1L7RH13	K1L7GH13	K1L7▼	
ALL THE	Full Guard	24–28 Vac/Vdc	Full Voltage	K1L35RH13	K1L35GH13	K1L35▼	
	Illuminated Push Button	<u> </u>	Transformer or Flashing	K1L∎RH13	K1L∎GH13	K1L∎▼	
	Clear Plastic Top	F " " " " " " " " " " " " " " " " " " "	Full Voltage	K1L∎RH13	K1L∎GH13	K1L ■ [18]	
The state of the s		For other voltages[19]■	Resistor or Neon[20]	K1L∎RH13	K1L∎GH13	K1L∎▼	
9001K1L1			LED [21]	K1L∎RH13	K1L∎GH13	K1L∎▼	
- Tanada		110-120 V, 50-60 Hz	Transformer	K3L1RH13	K3L1GH13	K3L1▼	
		220-240 V, 50-60 Hz	Transformer	K3L7RH13	K3L7GH13	K3L7▼	
	Full Guard	24–28 Vac/Vdc	Full Voltage	K3L35RH13	K3L35GH13	K3L35▼	
	Illuminated		Transformer or Flashing	K3L∎RH13	K3L∎GH13	K3L∎▼	
1 5	Push Button Metal Top		Full Voltage	K3L∎RH13	K3L∎GH13	K3L ■ [18]	
	Wetai 10p	For other voltages[19]■	Resistor or Neon [20]	K3L∎RH13	K3L∎GH13	K3L∎▼	
9001K3L1			LED [21]	K3L∎RH13	K3L∎GH13	K3L∎▼	
OUT TROLET		110-120 V, 50-60 Hz	Transformer	K2L1RH13	K2L1GH13	K2L1▼	
The state of the s	No Guard	220-240 V, 50-60 Hz	Transformer	K2L7RH13	K2L7GH13	K2L7▼	
1111		24–28 Vac/Vdc	Full Voltage	K2L35RH13	K2L35GH13	K2L35▼	
2	Illuminated	For other voltages[19]■	Transformer or Flashing	K2L∎RH13	K2L∎GH13	K2L ■ [18]	
	Push Button		Full Voltage	K2L∎RH13	K2L∎GH13	K2L∎▼	
			Resistor or Neon [20]	K2L∎RH13	K2L∎GH13	K2L∎▼	
9001K2L1			LED [21]	K2L∎RH13	K2L∎GH13	K2L∎▼	
		110-120 V, 50-60 Hz	Transformer	K2L1R20H13	K2L1G20H13		
	4.0/0:- (05)	220-240 V, 50-60 Hz	Transformer	K2L7R20H13	K2L7G20H13		
· Ville	1-3/8 in. (35 mm) Illuminated	24–28 Vac/Vdc	Full Voltage	K2L35R20H13	K2L35G20H13	0-4101	
	Mushroom,		Transformer or Flashing	K2L∎R20H13	K2L∎G20H13	Order K2L ■▼ Above [22]	
	Screw-On Plastic Head	For other voltages/19/■	Full Voltage	K2L∎R20H13	K2L∎G20H13	Above [22]	
	Flastic flead	i oi otilei voitages[19]■	Resistor or Neon [20]	K2L∎R20H13	K2L∎G20H13		
9001K2LR20			LED [21]	K2L∎R20H13	K2L∎G20H13		
		110-120 V, 50-60 Hz	Transformer	K2L1R21H13	K2L1G21H13		
	0.4(4:= (57)	220–240 V, 50–60 Hz	Transformer	K2L7R21H13	K2L7G21H13		
	2-1/4 in. (57 mm) Illuminated	24–28 Vac/Vdc	Full Voltage	K2L35R21H13	K2L35G21H13	Order KOL =	
	Mushroom,		Transformer or Flashing	K2L∎R21H13	K2L∎G21H13	Order K2L∎▼ Above [22]	
	Screw-On Plastic Head	For other voltages/19/■	Full Voltage	K2L∎R21H13	K2L∎G21H13		
00041(01 D04	riasiic i icau	i oi oiliei voilages[19]	Resistor or Neon [20]	K2L∎R21H13	K2L∎G21H13		
9001K2LR21		ſ	LED [21]	K2L∎R21H13	K2L∎G21H13		

Table 19.220: Color Caps

Color	Color Codes ▼							
Color	K1L, K2L, K3L	1-3/8 in. Mushroom	2-1/4 in. Mushroom					
Red	R	R20	R21					
Green	G	G20	G21					
Blue	L	L20	L21					
Yellow	Υ	Y20	Y21					
White	W	W20	W21					
Clear	С	C20	C21					
Amber	Α	A20	A21					

NOTE: UL Types 4, 13/NEMA 4, 13 For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97. Contact blocks and legend plate not included unless otherwise noted.

When ordering, add prefix 9001 to the catalog number.

These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the "H" number to the end of the operator type number.

^[18] Add the color code as chosen from the color cap table. Example: K2L25 with a blue 1–3/8 in. mushroom button = K2L25L20.

[■] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-96. Example: K2L with 240 Vac/Vdc = K2L25. On neon light modules, use clear color caps only. [19]

^[20]

^[21]

The cap must be the same color as the LED light module chosen, e.g., for red LED, use red color cap. The only difference between a no guard (K2L_) operator and mushroom button operator is the color cap.

Table 19 221: 2-Position Selector Switches

Table 13.221. 2-1 Osition oc	iccioi owite	,,,,	3								
	Contact Block Required						1 — Contact Closed 0 — Contact Open			en	
Contact Block Position	Quantit KA1 or	y ar KA2	nd Type or KA3	Moun KA1 or I		n Side 2 or KA3	Left	Right	Left	∦ Right	
	KA1		KA3	KA1		KA3 #2	1	0	0	1	
Side 2 Side 1	0 0	or	KA2	#2	or	KA2 #2	0	1	1	0	
Operator Locating	KA1		KA3	KA1 #1 or	KA1	KA1		1	0	0	1
Notch Top View	000	or	KA2		or	KA2 #1	0	1	1	0	
For cam, see Type K, KX, and SK Selector Switch Guide, page 19-83.				•		E		0			

9001K 2-Position Selector Switches

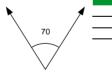
Non-Illuminated Operators	Cat. No. [23]	Cat. No. [23]
Manual Return [24], Operator Only (without contact blocks)		
Without Knob	KS11	KS12
With Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-80) [25]	KS11◆	KS12◆
Key Operated with E10 Key (Code1,2,3) [25]	KS11K◆	KS12K♦
Operator with Contact Blocks and Standard black knob		
With 1 KA1 on Side #2	KS11BH13	_
With 1 KA1 on Side #1	KS11BH1	_
With 1 KA1 on Side #1 and 1 KA1 on side #2	KS11BH2	_
Spring Return from Left [24], Operator Only (without contact blocks)		
Without Knob	KS25	_
Nith Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-80) [25]	KS25♦	_
Key Operated with E10 Key (Code 2 only) [26]	KS25K2	_
Spring Return from Right [24], Operator Only (without contact blocks)		
Without Knob	_	KS34
Nith Knob (select style and color from Table 19.222 Selector Switch Assembly Codes, page 19-80) [25]		KS34◆
Key Operated with E10 Key (Code 1 only)	_	KS34K1

Illuminated Operators	Cat. No. [23]	Cat. No. [23]
Manual Return [24], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	K11J1	K12J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	K11J1R	K12J1R
With Other Color Knob and other voltage Light Module [27]. [25]	K11J∎◆	K12J∎◆
Spring Return from Left [24], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	K25J1	_
With Standard Red Knob, 110-120V 50-60 Hz Transformer	K25J1R	_
With Other Color Knob and other voltage Light Module [27]. [25]	K25J ∎ ♦	_
Spring Return from Right [24], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	_	K34J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	_	K34J1R
With Other Color Knob and other voltage Light Module [27], [25]	_	K34.I■◆

Table 19.222: Selector Switch Assembly Code and Knob Cat. No.

Color	Standa	rd Knob	Gloved Hand Knob			
	◆ Knob Code	Cat. No. [23]	◆ Knob Code	Cat. No. [23]		
Black	В	B11	FB	B25		
Red	R	R8	FR	R24		
Green	G	G8	FG	G24		
Yellow	Y	Y8	FY	Y24		
Blue	L	L8	FL	L24		
White	W	W8	FW	W24		
Amber	A	A8	FA	A24		
Clear	С	C8	FC	C24		

Table 19.223: Key Withdrawl Codes



2 Position

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

Left Only Right Only Left and Right

^[23] When ordering, add prefix 9001 to the catalog number.

These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-98 as needed for your application.

• Add the knob color code from Table 19.222 Selector Switch Assembly Codes, page 19-80 [24] [25]

Add the key withdrawal code from Table 19.223 Key Withdrawl Codes, page 19-80 [26]

^[27] ■ Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-96. Example: K25J■ with 208Vac = K25J3



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9001 K Selector Switches

Class 9001 / Refer to Catalog 9001CT1103

9001K 3-Position Selector Switches

Table 19.224: 3-Position Selector Switches

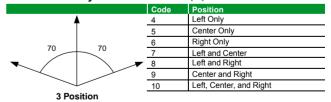
Conta	ct Block			liciies	,					1 - Conta	ct Closed 0- 0	Contact Open			
		_									A	A	A .	A	A
Contact Block Position		uanti and Type	•		lount on Side		Left Right	Left Right	Left Right	Left Right	Left Right	Left Right	Left Right	Left Right	Left Right
	KA1		KA3	KA1	;	A3 #2	1 0 0	1 0 0	0 0 1	1 0 0	1 0 0	1 0 0	1 0 0	0 1 0	1 1 0
Side 2 Side 1	000	or	KA2 0	#2		A2 #2	0 1 1	0 0 1	0 1 0	0 1 0	0 0 1	0 1 1	0 1 1	1 0 0	0 0 1
Operator Locating	KA1		KA3	KA1	;	A3 #1	0 0 1	1 0 0	0 0 1	1 0 0	0 1 0	0 0 1	1 0 1	0 0 1	0 1 1
Notch Notch	0 0	or	KA2	#1		A2 1	1 1 0	0 0 1	0 1 0	0 1 0	0 0 1	1 0 0	0 1 0	0 1 0	1 0 0
For cam, see Type K, KX, and SK Se	lector Swi	tch (Guide, pac	ne 19-8:	3.		В	С	D	Е	F	G	J	L	М
Non-Illuminated Operator			7,7,7				Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Manual Return, Operator		nout	contact I	olocks)	[29]		- Jul. 110.	Jan. 110.	500.110.	<u> </u>			- Juli 110.		- Juli 110.
Without Knob							KS42	KS43	KS44	KS45	KS46	KS47	KS49	KS401	KS402
With Knob ◆[30]							KS42♦	KS43♦	KS44 ♦	KS45♦	KS46♦	KS47♦	KS49 ♦	KS401♦	KS402♦
Key Operated with E10 Key	/ (Code 4 t	throu	ıgh 10) ▼	[31]			KS42K▼	KS43K▼	KS44K▼	KS45K▼	KS46K▼	KS47K▼	KS49K▼	KS401K▼	KS402K▼
Operator with Contact Blo	ocks and	Stan	dard blac	k knob	[32]										
With 1 KA1 on Side #2 (H13	3)						KS42B- H13	KS43B- H13	KS44B- H13	KS45BH13	KS46BH13	KS47BH13	KS49BH13	KS401B- H13	KS402B- H13
With 1 KA1 on Side #1 (H1))						KS42BH1	KS43BH1	KS44BH1	KS45BH1	KS46BH1	KS47BH1	KS49BH1	KS401BH1	KS402BH1
With 1 KA1 on Side #1 and	1 KA1 on	side	#2 (H2)				KS42BH2	KS43BH2	KS44BH2	KS45BH2	KS46BH2	KS47BH2	KS49BH2	KS401BH2	KS402BH2
Spring Return from Left to	o Center,	Ope	rator Only	y (with	out co	ntac	t blocks) [29)]							
Without Knob							KS62	KS63	KS64	KS65	KS66	KS67	KS69	KS601	KS602
With Knob ◆[30]							KS62♦	KS63♦	KS64♦	KS65♦	KS66♦	KS67♦	KS69♦	KS601♦	KS602♦
Key Operated with E10 Key							KS62K▼	KS63K▼	KS64K▼	KS65K▼	KS66K▼	KS67K▼	KS69K▼	KS601K▼	KS602K▼
Spring Return from Right	to Center	r, Op	erator Or	ıly (wit	hout c	onta					,	,			
Without Knob							KS72	KS73	KS74	KS75	KS76	KS77	KS79	KS701	KS702
With Knob ◆[30]	(0 1	_		FO 41			KS72♦	KS73♦	KS74♦	KS75♦	KS76♦	KS77♦	KS79♦	KS701◆	KS702♦
Key Operated with E10 Key			• •			!	KS72K▼	KS73K▼	KS74K▼	KS75K▼	KS76K▼	KS77K▼	KS79K▼	KS701K▼	KS702K▼
Spring Return from Both : Without Knob	Sides to C	Sent	er, Opera	tor Oni	y (with	10ut	KS52		KS54	KS55	KS56	KS57	KS59	KS501	KS502
With Knob •/30]							KS52♦	KS53 KS53◆	KS54♦	KS55♦	KS56♦	KS57♦	KS59♦	KS501	KS502♦
Key Operated with E10 Key	/ (Code 4	5 or	7 only) ▼	[31]			KS52K▼	KS53K▼	KS54K▼	KS55K▼	KS56K▼	KS57K▼	KS59K▼	KS501 ▼	KS502 ▼
ney operated with Lito key	/ (Oodc 4,	5 01	7 Offig) ¥	[51]			NOJZN ¥	NOJJIN V	N334N ¥	NOJUN V	K330K ₹	K357K ▼	KOJSK ¥	NOSUTIN V	N3302N ▼
Illuminated Operators							Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.	Cat. No.
Manual Return, Operator	Only (with	nout	contact l	olocks)	[29]										
Without Knob, 110-120V 50	0-60 Hz Tra	ansfo	ormer	•			K42J1	K43J1	K44J1	K45J1	K46J1	K47J1	K49J1	K401J1	K402J1
With Standard Red Knob, 1	10-120V 5	50-60	Hz Trans	sformer			K42J1R	K43J1R	K44J1R	K45J1R	K46J1R	K47J1R	K49J1R	K401J1R	K402J1R
With Other Color Knob and	other volta	age l	ight Mod	ule ■[33	3] •[30	1	K42J ∎ ♦	K42J∎♦	K44J∎♦	K45J∎◆	K46J∎♦	K47J∎◆	K49J∎◆	K401J ∎ ♦	K402J ∎ ♦
Spring Return from Left to	o Center,	Ope	rator Only	y (with	out co	ntac	t blocks) [29)]							
Without Knob, 110-120V 50							K62J1	K63J1	K64J1	K65J1	K66J1	K67J1	K69J1	K601J1	K602J1
With Standard Red Knob, 1							K62J1R	K63J1R	K64J1R	K65J1R	K66J1R	K67J1R	K69J1R	K601J1R	K602J1R
With Other Color Knob and						_	K62J∎♦	K62J∎♦	K64J∎♦	K65J∎◆	K66J∎◆	K67J∎◆	K69J∎◆	K601J ∎ ♦	K602J ∎ ♦
Spring Return from Right				nly (wit	nout c	onta	, , ,		1	1					
With Oter dead Bod Knob 4							K72J1	K73J1	K74J1	K75J1	K76J1	K77J1	K79J1	K701J1	K702J1
With Other Color Knob, 1					1 . [20	,	K72J1R	K73J1R	K74J1R	K75J1R	K76J1R	K77J1R	K79J1R	K701J1R	K702J1R
With Other Color Knob and							K72J∎♦	K72J∎♦	K74J∎♦	K75J∎◆	K76J∎♦	K77J∎♦	K79J∎◆	K701J ∎ ♦	K702J ∎ ♦
Spring Return from Both			-	tor Uni	y (with	out			125 4 14	IVEE 14	IVEO II	IVET 14	IXEC 14	IVEC 1 11	IVECC 14
Without Knob, 110-120V 50	אס-ע HZ Ira	ansto	nner				K52J1	K53J1	K54J1	K55J1	K56J1	K57J1	K59J1	K501J1	K502J1

Table 19.225: Selector Switch Assembly Code and Knob Cat. No. ◆

rabio rollizor dolloctor divitori recombily dode and railos data rec						
Color	Standard K	nob	Gloved Hand Knob			
	[30] Knob Code	Cat. No. [28]	[30] Knob Code	Cat. No. [28]		
Black	В	B11	FB	B25		
Red	R	R8	FR	R24		
Green	G	G8	FG	G24		
Yellow	Y	Y8	FY	Y24		
Blue	L	L8	FL	L24		
White	W	W8	FW	W24		
Amber	Α	A8	FA	A24		
Clear	С	C8	FC	C24		

K56J∎♦ Table 19.226: Key Withdrawal Codes [34]

K56J1R



K57J1R

K57J∎♦

K59J1R

K59J∎♦

K501J1R

K501J**∎**♦

K502,I1R

K502J**∎**♦

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

When ordering, add prefix 9001 to the catalog number.

With Standard Red Knob, 110-120V 50-60 Hz Transformer

With Other Color Knob and other voltage Light Module ■[33] ◆[30]

[29] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-98 as needed for your application.

K52J1R

K52J∎♦

K53J1R

K53J∎♦

K54J1R

K54J∎♦

K55J1R

K55J∎♦

- [30] ◆ Add the knob color code from Table 19.225 Selector Switch Assembly Code, page 19-81. For LED, knob color must match LED.
- ▼ Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6. [31]
- For other color knobs replace the B with knob color code from the Selector Switch Assembly Code table. [32] [33]
 - Add the voltage assembly code as chosen from page 19–86.
- Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.



9001K 4-Position Selector Switches

Table 19.227: 4-Position Selector Switches

			Contact Blo	ck Required			
Contact Block Position	Quantity and Type KA1 or KA2 or KA3		Mount on Side KA1 or KA2 or KA3			1—Contact Closed 0—Contact Open	
Operator Locating Notch Top View	KA1		KA3	KA1		KA3 #2	1 0 0 0
	000	or	KA2	#2	or	KA2 #2	0 0 1 0
	KA1 010 0 0		KA3	KA1 #1		KA3 #1	0 0 0 1
		or	KA2		or	KA2 #1	0 1 0 0
cam, see Type K, KX, and SK Selector Sy	vitch Guide, nage 10	83	0 0				н

Non-Illuminated Operators	Cat. No. [35]
Manual Return [36], Operator Only (without contact blocks)	
Without Knob	KS88
With Knob+[37]	KS88♦
Key Operated with E10 Key (Codes 11, 12, 13, 14, 15)	KS88K[38]

Illuminated Operators	Cat. No. [35]		
Manual Return [36], Operator Only (without contact blocks)			
Without Knob, 110-120V 50-60 Hz Transformer	KS88J1		
With Standard Red Knob, 110-120V 50-60 Hz Transformer	KS88J1R		
With Other Color Knob and other voltage Light Module ■[39] ◆[37][40]	KS88J∎◆		

Table 19.228: Selector Switch Assembly Code and Knob Cat. No.

Color	Standar	d Knob	Gloved Hand Knob		
	Knob Code	Cat. No.	Knob Code	Cat. No.	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Υ	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	Α	A8	FA	A24	
Clear	С	C8	FC	C24	

Table 19.229: Key Withdrawl Codes



NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

Potentiometers with Dial Plate

Table 19.230: Potentiometers with Dial Plate (not UL listed)—Maximum Voltage 300 Vac

Power	Description	Ratings	Type
2 W	Operator Only, for Single Potentiometer		K20
	Operator with Single Potentiometer	NEMA 4, 13	K21
	Operator Only, for Tandem Potentiometer	NEWA 4, 13	K22
	Operator with Tandem Potentiometer		K23



Table 19 231: Potentiometer Suffives

Table 19.231. Potentionieter Sunixes							
Single Potentiometer							
Suffix [41]	Resistance	Suffix [41]	Resistance				
01	50 Ω	07	5 kΩ				
02	100 Ω	08	10 kΩ				
04	500 Ω	09	25 kΩ				
05	1 kΩ	13	500 kΩ				
39	2 kΩ	37	750 kΩ				
06	2.5 kΩ	14	1 ΜΩ				
Tandem Potentiom	neter						
Suffix [41]		Resistance					
Julia [41]		Front	Rear				
82		1 kW	1 kW				

NOTE: Any potentiometer with a shaft 7/8" long and 1/4" diameter may be used with these operators.

When ordering, add prefix 9001 to the catalog number.

^[36] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-98 as needed for your application.

^[37] ◆ Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED.

Add the key withdrawal code from the Key Withdrawl Codes table. [38]

^[39] ■ Add the key withdrawal code from Key Widthdrawl Codes table. Example: KS43K with key withdrawal in the right position only = KS43K6.

Add the knob color code from the Selector Switch Assembly Code table. For LED, knob color must match LED.

^[40] [41] For the complete part number, add the suffix from Table 19.231 Potentiometer Suffixes, page 19-82 to the catalog number. Example: 9001K2105.



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Type K, KX, and SK Selector Switch Guide

Class 9001 / Refer to Catalog 9001CT1103

Selection

Shown below is a simplified method of selecting a selector switch to meet almost any combination of contact sequences.

Step No. 1
Determine the contact sequence(s) required. Set up a target table like the one shown for the example below.

Contact Sequence 0—contact open 1— contact closed	×	†	1
Α	1	0	0
В	0	1	0
С	0	0	1

Sten No. 2

Step No. 2
Look for a cam type common to all sequences in:
Table 19.232 2 Position Selector Switch, page 19-83,
Table 19.233 3 Position Selector Switch, page 19-83, or
Table 19.234 4 Position Selector Switch, page 19-83.
For the example above, Table 19.233 3 Position Selector Switch, page
19-83 would be used.

For the contact sequences A (1 0 0), B (0 1 0) and C (0 0 1) of the example above, cam types F and L are common to all three sequences.

Step No. 3
Next, use the cam type common to all the sequences (if several cam types are common, choose one) to find the operator type number. Go to the proper reference topic as indicated in the table below:

Number of Positions	Push Button Line	Reference topics
2	Type K, Type SK, Type KX	Type K, page 19-80 Type SK, page 19-90 "H" Numbers, page 19-98 Type KX with Contacts, page 19-108 Type KX without Contacts, page 19-110
3	Type K, Type SK, Type KX	Type K, page 19-81 Type SK, page 19-91 "H" Numbers, page 19-98 Type KX with Contacts, page 19-108 Type KX without Contacts, page 19-110
4	Type K, Type SK, Type KX	Type K, page 19-82 Type SK, page 19-92 Type KX, page 19-108

If for the example above a manual return operator with a standard black knob is required and:
The F cam type is chosen, the operator type number is:

- Type K—Class 9001 Type KS46B, page 19-81
- Type SK—Class 9001 Type SKS46B, page 19-91
- Type KX—Class 9001 Type KXSDFB, page 19-110

The L cam type is chosen, the operator type number is:

- Type K—Class 9001 Type KS401B, page 19-81
- Type SK—Class 9001 Type SKS401B, page 19-91
- Type KX—Class 9001 Type KXSDLB, page 19-110

Step No. 4: Determine the contact blocks required by using the same table in Step

If, for the example above, the F cam type is chosen:

- Use a 9001KA3 mounted on side no. 2 for sequence A (1 0 0).
- Use a 9001KA3 mounted on side no. 1 for sequence B (0 1 0).
- Use a 9001KA2 mounted on side no. 1 or 2 for sequence C (0 0 1).

If, for the example above, the L cam type is chosen:

- Use a 9001KA2 mounted on side no. 2 for sequence A (1 0 0).
- Use a 9001KA2 mounted on side no. 1 or a 9001KA3 mounted on side no. 2 for sequence B (0 1 0).
- Use a 9001KA3 mounted on side no. 1 for sequence C (0 0 1). One Type KA1 double circuit block can be used in place of one Type KA2 single circuit block plus one Type KA3 single circuit block mounted on the same side.

Type K, KX, and SK Selector Switch Guide

Table 19.232: 2 Position Selector Switch

If you require contact sequence—		Use Cam Type	Use Contact	Mount on
×	1	osc sam type	Block Type	side no. [42]
4	1 0	Е	KA3	1 or 2
		D	KA2	1 or 2
0	1	E	KA2	1 or 2
	'	D	KA3	1 or 2

Table 19.233: 3 Position Selector Switch

con	f you requi tact sequei	re nce—	Use Cam Type			Use Contact Block Type	Mount on side no. [42]						
N.	1	#										Zieek iype	0100 1101 [12]
								G			М	KA2	1
										L		KA2	2
1	0	0		С		Ε						KA3	1
			В	С		Е	F	G	J			KA3	2
			В					G	J			KA5 [43]	2
					D	Е			7	L		KA2	1
0	1	0			D	Е						KA2	2
U	'	0					F					KA3	11
										L		KA3	2
				С			F					KA2	1 or 2
			В		D			G		L		KA3	11
0	0	1			D							KA3	2
			В									KA5[43]	1
											М	KA2	2
			В									KA2	1
1	1	0		С			F					KA5 [43]	1 or 2
											M	KA3	2
			В					G	٦			KA2	2
	_							G				KA5[43]	1
0	1	1								L		KA5 [43]	2
											М	KA3	1
									J			KA3	1
1	0	1			D	Е			J	L		KA5[43]	1
					D	Е						KA5[43]	2

Table 19.234: 4 Position Selector Switch

		require equence—		Use Cam Type	Use Contact	Mount on	
×	×	1	1	Ose Calli Type	Block Type	side no. [42]	
1	0	0	0	Н	(A) KA3	2	
0	1	0	0	Н	(B) KA2	1	
0	0	1	0	Н	(C) KA2	2	
0	0	0	1	Н	(D) KA3	1	
1	0	0	1	Н	A & D Wired in Parallel		
1	1	0	0	Н	A & B V	Vired in Parallel	
0	1	1	0	Н	B&CV	Vired in Parallel	
0	0	1	1	Н	C&DV	Vired in Parallel	
1	1	1	0	Н	A, B & C	Wired in Parallel	
0	1	1	1	Н	B, C & D	Wired in Parallel	
1	0	1	0	Н	A & C Wired in Parallel		
0	1	0	1	Н	B & D Wired in Parallel		
1	1	0	1	Н	KA5 [43] 2		
1	0	1	1	Н	KA5 [43]	1	

NOTE: For Outline Dimensions see Catalog 9001CT1103

NOTE: When ordering, add prefix 9001 to the catalog number.

When ordering, please specify:

- Quantity
- Class Number
- · Type or Catalog Number

For "H" Numbers, see Type K, SK, and KX Contact Block "H" Numbers, page 19-98



Type K Heavy Duty Pilot Lights

When ordering, add prefix 9001 to the catalog number.

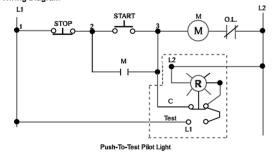
Table 19.235: Pilot Lights—UL Types 4, 13/NEMA 4 & 13[44][45]

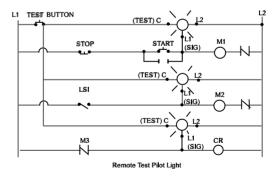
Description	Voltage	Style	With Red Fresnel Color Cap [46]	With Green Fresnel Color Cap [46]	With Other Color Cap [46] [47]	Without Color Cap [46]
Standard Pilot Light (Plastic Fresnel Color Cap Shown)	110–120 V, 50–60 Hz 220–240 V, 50–60 Hz 24–28 Vac/Vdc	Transformer Transformer Full Voltage	KP1R31 KP7R31 KP35R31	KP1G31 KP7G31 KP35G31	KP1∎ KP7∎ KP35∎	KP1 KP7 KP35
	For other voltages see Standard and Shallow Depth Light Modules, page 19-96.	Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49]	KP▲R31 KP▲R31	KP▲G31 KP▲G31	KP▲■ KP▲■	KP ▲ KP ▲
	110–120 V, 50–60 Hz 220–240 V, 50–60 Hz 24–28 Vac/Vdc	Transformer Transformer Full Voltage	KT1R31 KT7R31 KT35R31	KT1G31 KT7G31 KT35G31	KT1∎ KT7∎ KT35∎	KT1 KT7 KT35
Push-To-Test Pilot Light (Glass Color Cap Shown)	For other voltages see Standard and Shallow Depth Light Modules, page 19-96.	Transformer, Flashing or LED [48] Full Voltage, Neon or Resistor [49]	KT≜R31 KT≜R31	KT▲G31 KT▲G31	KT▲∎ KT ▲	KT ≜ KT ≜
	120 Vac Only 24–28 Vac Only for other voltages	Resistor [50] Full Voltage [50]	KTR38R31 KTR35R31	KTR38G31 KTR35G31	KTR38∎ KTR35∎	KTR38 KTR35
Remote Test Pilot Light (Glass Color Cap Shown)	See Standard and Shallow Depth Light Modules, page 19-96.[50]	Full Voltage or Resistor [50]	KTR▲R31	KTR ▲ G31	KTR ▲■	KTR▲

Table 19.236: Color Caps

14516 13.230. 00101	Japa		
Color	Plastic Fresnel	Plastic Domed	Glass
Amber Blue Clear Green Red White Yellow	A31 L31 C31 G31 R31 W31	A9 L9 C9 G9 R9 W9 Y9	A6 L6 C6 G6 R6 W6 Y6

Typical Wiring Diagram





For Contact Blocks, see Type KA Contact Blocks, page 19-95 For Light Modules, see Standard and Shallow Depth Light Modules, page 19-96 For Accessories, see Type K and SK Accessories, page 19-99

- For use in hazardous locations, see Square D Offering According to Class, Division, and Group, page 19-97
- [45] Legend plates not included.
- When ordering, add prefix 9001 to the catalog number. [46]
- [47] ■ Add the color code as chosen from Table 19.236 Color Caps, page 19-84. **EXAMPLE: KP1 with a blue fresnel cap = KP1L31**
- The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap. [48]
- On neon light modules, use clear color caps only. [49]
- On remote test pilot lights use only full voltage or resistor voltage assembly codes. Do not choose LED (exception these LED codes are allowed: 38LG, 38LL, 38LR, 38LW, 38LY), neon or [50] transformer codes. For AC use only.



Type K Heavy Duty Specialty Operators

Class 9001 / Refer to Catalog 9001CT1103

Pro o



Without Latch

With Latch

The joy stick operator is ideal for applications where only one circuit is to be energized at one time. The three position joy stick closes one circuit in each Up-Down or Right-Left position with all circuits open in center position. The five position operator closes one circuit in each Up, Down, Left and Right position with all circuits open in center position.

op, Jown, Leri and Night position. With an chiculis open in Center position. Momentary contact operators are spring return to the center position. Maintained operators remain in position and must be returned manually. Operators with latch cannot be operated until the latch button in center of handle is pressed.



Selector Push Button 9001KQ

Inserts are field convertible. For colors not listed, order operator without insert, plus separate color insert from Additional Accessories for Type K and SK Operators, page 19-105. Up to two Type KA contact blocks can be mounted in tendem (total of four blocks). Selector push buttons cannot be illuminated.



Key Operated Push Button 9001KR

Type K Heavy Duty Specialty Operators

Table 19.237: Joy Stick Operators—UL Types 4, 13/NEMA 4, 13 [51] [52]

		Description		Operator With Contacts [53]	Operator Without Contacts [54] [53]
		Momentary Contact—	Without Latch	K71H7	K71
	3 Position—	Spring Return to Center	With Latch	K70H7	K70
¥	Center Off	Maintained Contact	Without Latch	K73H7	K73
		Maintained Contact	With Latch	K72H7	K72
		Momentary Contact— Spring Return to Center	Without Latch	K31H8	K31
←→	3 Position—	Spring Return to Center	With Latch	K30H8	K30
	Center Off	Maintained Contact	Without Latch	K33H8	K33
		Maintained Contact	With Latch	K32H8	K32
		Momentary Contact—	Without Latch	K35H2	K35
A	5 Position—	Spring Return to Center	With Latch	K34H2	K34
V	Center Off	Maintained Centest	Without Latch	K37H2	K37
		Maintained Contact With Latch		K36H2	K36

Table 19.238: Contact Arrangements

O	-141	Contact	Contact		Hand	le positior	ı (with ı	eference t	o Nib)
Operator Po	sitions	Block Type	Block Location	Contact	1 🛉	2 ->	OFF	3 ♦	4 ←
←→	_	KA3	POS 1 (3)	Α	_	1	0	_	0
	3	KA3	POS 2 (4)	Α	_	0	0	_	1
	_	KA2	POS 1 (3)	В	1	-	0	0	_
₹	3	KA2	POS 2 (4)	В	0	_	0	1	_
		KA1	POS 1 (3)	Α	0	1	0	0	0
A	-	KAI	103 1 (3)	В	1	0	0	0	0
Y	5	I/ A 1	POS 2 (4)	Α	0	0	0	0	1
		KA1		В	0	0	0	1	0

(1) Contact Closed (0) Contact Open

Table 19.239: Selector Push Button Operators—UL Types 4, 13/NEMA 4, 13

					- p -: u.					, -	
Contact	Block	Two Position Operators									
Requi	red		0—Co	ntact Op	en 1—C	ontact C	losed F	-Free	D-Depre	essed	
Quantity	Mount	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right
and Type	on Side	FD	FD	FD	FD	FD	FD	FD	FD	FD	FD
010		0 0	1 0	0 0	1 0	0 0	1 1	1 1	1 0	1 0	0 0
0 0 1 KA1	#2	0 1	0 1	0 1	0 0	0 1	0 0	0 0	0 1	0 1	0 1
010		0 0	1 1	0 0	1 0	1 1	0 0	1 0	1 1	1 1	0 0
0 0 1 KA1	#1	0 1	0 0	0 1	0 0	0 0	0 1	0 1	0 0	0 0	0 1
Cam /	[55]	P)	-	۲	9	3		Т	,	1
Color Ir	nsert	Туре		Туре	•	Туре	,	Тур	е	Туре	,
Without Ins	sert [56]	KQ	11	KC	212	KQ	13	K	Q14	KC	15
Blac		KQ1	I1B	KQ	12B	KQ.	13B	KC	14B	KQ	15B

Order Contact Blocks From Type KA Contact Blocks, page 19-95

Key operated push buttons are used wherever unauthorized use of a push button is discouraged. Examples are locking a Start push button in the extended position or locking a Stop push button in the depressed position. The operator can also be locked in the flush position—holding all contacts open. Up to two Type KA contact blocks can be mounted in tandem (total of four blocks). ("X" = locked position) [57]

Table 19.240: Key Operated Push Button – UL Types 4, 13/NEMA 4, 13 [51] [52]

	Loc			
Description	Extended	Flush	De- pressed	Type [53]
Push button operable only with key in lock. Key is removable in locked position only.	<u> </u>	$\frac{\overline{x}}{x}$		KR131 KR132 KR133 KR137
Push button operable with or without key in lock. Push button can be locked with key only. Key removable in both locked or unlocked position.	<u> </u>	<u> </u>	××	KR141 KR142 KR143 KR147
To lock the unit, rotate the key with the button in the extended position. Then, push the button to lock it in the position indicated at right. Key is removable only in this position.		<u>×</u>	\overline{x}	KR152 KR153

- [51] For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97.
- [52] Legend plate and contact block not included unless otherwise noted.
- [53] When ordering, add prefix 9001 to the catalog number.
- These operators can be ordered complete with contact blocks—a total of four (4) contact blocks can be used. Add the "H" number chosen from Table 19.280 "H" Codes, page 19-98 to the operator type number and add the cost of the "H" number to the operator cost.
- [55] Cams are not interchangeable.
- [56] Order color inserts from Additional Accessories for Type K and SK Operators, page 19-105.
- All key operated push buttons are furnished as standard with Square D no. E10 key change. See catalog 9001CT0001 for other key changes.

Type K Heavy Duty Specialty Operators

Class 9001 / Refer to Catalog 9001CT1103



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9001KR11U



Description	Color	With 2 N.O. Contacts (2 KA2) [61]	With 1 N.O. & 1 N.C. Contact (KA2, KA3) [61]	Without Contacts [62] [61]
Momentary Dual Function	Universal [63] Green-Red Other [62]	KR6UH7 KR6GRH7 KR6∎H7	KR6UH37 KR6GRH37 KR6∎H37	KR6U KR6GR KR6∎
Momentary Interlocked Dual Function	Universal[63] Green-Red Other [62]	KR67UH7 KR67GRH7 KR67∎H7	KR67UH37 KR67GRH37 KR67∎H37	KR67U KR67GR KR67∎
Maintained Interlocked Dual Function	Universal [63] Green-Red Other [62]	KR7UH7 KR7GRH7 KR7∎H7	KR7UH37 KR7GRH37 KR7∎H37	KR7U KR7GR KR7∎
Description	Color		Contacts (KA1)	Without Contacts [62]
Both Buttons Maintained Interlocked Assembly	Universal [64] Other [65]	_	KR11UH1 KR11 ▲H1	KR11U KR11 ▲
One Button Momentary One Button Maintained Interlocked Assembly	Universal [64] Other [65]	_	KR12UH1H1 KR12▲H1H1	KR12U KR12▲

Table 19.242: Emergency Break-Glass Operator—UL 4, 13/NEMA 4, 13[66]

Description	Type [61]
Operator is held in a depressed position by a glass disc. When the glass disc is broken with the hammer, button returns to a normal extended position. Package of 5 discs included with operator.	K15

Table 19.243: 9001K15 Replacement Parts

Description	Part Number
Yellow bumper	3105211101
Hammer and chain	3105206750
Lower ring nut	6512232801
Top ring nut	9001K40
Package of 5 replacement discs	9001K57
Clip to hold hammer	2540902240

Table 19.244: Rocker Arm Operating Lever

Description	Type [61]
Allows two standard push buttons to be operated independently of each other. Price does not include push buttons or legend plates. Order push buttons and legend plates from Table 19.214 Non-Illuminated Momentary Push Button Operators, page 19-77, and Table 19.284 Legend Plates, page 19-99—specify which marking is to be inverted.	K50

Table 19.245: Alternate Action—Push-on, Push-off Module

Description	Type [61]
This module can be added to standard 9001 Type K, KX, SK or T momentary push button operators. Contact blocks mounted behind this module (maximum of 2) are held in the depressed position when the operator is pressed once, and released to their normal position when the operator is pressed again. For a N.C. circuit, use a 9001KA3 or the N.C. contact of either a 9001KA1 or 9001KA4. For a N.O. circuit, use the N.O. contact of either a 9001KA4 or 9001KA4.	K85

Table 19.246: Wobble Stick

Description	Type [61]
For easy operation of any standard push button	K8

Table 19.247: Off Delay Push Button—UL Types 4, 13/NEMA 4, 13

			Type (All Colors)		
	Description	Full Guard [61]	Extended Guard [61]	No Guard [61]	
20	Timed Contact 1 N.O. and 1 N.C.	KRD1UH1	KRD2UH1	KRD3UH1	
Time Delay Push Button 9001KRD	Timed Contact 2 N.O. and 2 N.C.	KRD1UH2	KRD2UH2	KRD3UH2	

Timing period is adjustable from 0.1 second to 60 seconds and begins after button has been released. Devices include a pack of seven color inserts for color coding the push button. See Accessories, page 19-105 for Universal color insert. Contacts are quick make-quick break.



Emergency Break-Glass Operator 9001K15







Push-on Push-off Module 9001K85



Wobble Stick 9001K8

NOTE: When mounted in top or bottom hole of a Type K enclosure, the Off Delay Push Button requires one additional space below or above operator. When mounted other than in top or bottom hole, device may require two additional spaces, one above and one below operator. Closing plates must be installed on unused holes.

- [58] Meets UL Type 13/NEMA 13 and UL Type 6/NEMA 6, which UL and NEMA consider an equivalent to UL Type 4/NEMA 4.
- [59] For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97.
- [60] Legend plate and contact block not included unless otherwise noted.
- [61] When ordering, add prefix 9001 to the catalog number
- [62] Choose one color for each button. R = red, G = green, B = Black. Example: 9001KR6 with left red and right black = 9001KR6RB. See Color Codes for 30 mm Multifunction Operators, page 19-77.
- [63] Universal for KR6, KR67, KR7 includes 2 inserts each of black, red and green.
- [64] Universal for KR11, KR12 includes 2 each of black, red, green, yellow, orange, blue, white.
- [65] A Choose one color for each button. R = red, G = green, B = Black. Example: 9001KR6 with left red and right black = 9001KR6RB. See Color Codes, page 19-77.
- [66] For enclosed versions see 9001KY and 9001SKY Control Stations, page 19-118.



Type SK Corrosion Resistant Non-Illuminated Operators

Class 9001 / Refer to Catalog 9001CT1103

30 mm Momentary Push Button Operators, UL Types 4, 4X, 13/ NEMA 4, 4X, 13

Table 19.248: Non-Illuminated Momentary Push Button Operators[67]

Description	Color	Operator with 1 N.O. and 1 N.C. Contact (KA1)	Operator with 1 N.O. Contact (KA2)	Operator with 1 N.C. Contact (KA3)	Operator Only No Contacts [68]
	Black	SKR1BH13	SKR1BH5	SKR1BH6	SKR1B
	Red	SKR1RH13	SKR1RH5	SKR1RH6	SKR1R
	Green	SKR1GH13	SKR1GH5	SKR1GH6	SKR1G
	Universal [69]	SKR1UH13	SKR1UH5	SKR1UH6	SKR1U
9001SKR1B Full Guard	Other [70]	SKR1∎H13	SKR1∎H5	SKR1∎H6	SKR1∎
	Black	SKR3BH13	SKR3BH5	SKR3BH6	SKR3B
	Red	SKR3RH13	SKR3RH5	SKR3RH6	SKR3R
	Green	SKR3GH13	SKR3GH5	SKR3GH6	SKR3G
(2) YEAR	Universal [69]	SKR3UH13	SKR3UH5	SKR3UH6	SKR3U
9001SKR3B No Guard	Other [70]	SKR3∎H13	SKR3∎H5	SKR3∎H6	SKR3∎
No Guard	Black	SKR2BH13	SKR2BH5	SKR2BH6	SKR2B
	Red	SKR2RH13	SKR2RH5	SKR2RH6	SKR2R
	Green	SKR2GH13	SKR2GH5	SKR2GH6	SKR2G
	Universal [69]	SKR2UH13	SKR2UH5	SKR2UH6	SKR2U
9001SKR2B Extended Guard	Other [70]	SKR2∎	SKR2∎H5	SKR2∎H6	SKR2∎
Externation Guard	Snap-In Mushroom Butt	on			
4	Black	SKR4BH13	SKR4BH5	SKR4BH6	SKR4B
	Red	SKR4RH13	SKR4RH5	SKR4RH6	SKR4R
	Red [71]	SKR4R05H13	SKR4R05H5	SKR4R05H6	SKR4R05
	Green	SKR4GH13	SKR4GH5	SKR4GH6	SKR4G
	Other [72]	SKR4 ▲ H13	SKR4 ▲ H5	SKR4 ▲ H6	SKR4 ▲
	Screw-On Mushroom B	utton with Set Screw Security			
9001SKR4B	Black	SKR24BH13	SKR24BH5	SKR24BH6	SKR24B
1-3/8 in. (35 mm)	Red	SKR24RH13	SKR24RH5	SKR24RH6	SKR24R
Mushroom Button	Green	SKR24GH13	SKR24GH5	SKR24GH6	SKR24G
	Other [72]	SKR24 ▲ H13	SKR24 ▲ H5	SKR24 ▲ H6	SKR24▲
	Snap-In Mushroom Butt	on, Plastic Head			
	Black	SKR5BH13	SKR5BH5	SKR5BH6	SKR5B
	Red	SKR5RH13	SKR5RH5	SKR5RH6	SKR5R
	Red [71]	SKR5R05H13	SKR5R05H5	SKR5R05H6	SKR5R05
	Green	SKR5GH13	SKR5GH5	SKR5GH6	SKR5G
	Other [72]	SKR5▲H13	SKR5▲H5	SKR5▲H6	SKR5▲
	Screw-On Mushroom B	utton with Set Screw Security,	Plastic Head		
00048KD5	Black	SKR25BH13	SKR25BH5	SKR25BH6	SKR25B
9001SKR5 2-1/4 in. (57 mm)	Red	SKR25RH13	SKR25RH5	SKR25RH6	SKR25R
Mushroom Button	Green	SKR25GH13	SKR25GH5	SKR25GH6	SKR25G
	Other [72]	SKR25 ▲ H13	SKR25 ▲ H5	SKR25 ▲ H6	SKR25 ▲

Table 19.249: Color Codes

. 45.5 . 6.2 . 6	. 50.0. 50400	
Color	■ SKR1, 2, 3 Place Color Code in Type Number	▲ SKR4, 5, 24, 25 Place Color Code in Type Number
Blue	L	L
Yellow	Y	Y
White	W	_
Orange	S	S
Gray	E	_

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97. Contact blocks and legend plate not included unless otherwise noted.

When ordering, add prefix 9001 to the catalog number.

^[68] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the "H" number to the end of the operator type number.

^[69] The universal push button operators include one each of the following color inserts: black, red, green, yellow, orange, blue and white.

^[70] See Table 19.249 Color Codes , page 19-87.

^[71] Knob has the words "Emergency Stop" in raised letters highlighted in white for readability.

^{72] ▲} See Table 19.249 Color Codes , page 19-87.

Type SK Corrosion Resistant Multifunction Operators

Class 9001 / Refer to Catalog 9001CT1103



30 mm Multifunction Operators UL Types 4, 4X, 13/NEMA 4, 4X, 13

Table 19.250: Non-Illuminated Push-Pull Screw-on Mushroom Operators, Plastic Head [73]

	Description	Color	With 2 N.C. Contacts (1 KA3, 1 KA5)	With 1 N.O. / 1 N.C. Contact (1 KA1)	Without Contacts [74]	
	3 Position					
TO START TO STOP	Mamantan / Dull	Red	SKR8RH25	_	SKR8R	
100	Momentary Pull- Maintained Neutral- Momentary Push [75]	Green	SKR8GH25	_	SKR8G	
	Womentary Fusit [75]	Other [76]	SKR8 ▲ H25	_	SKR8▲	
	2 Position[77]					
	Maintained Pull-	Red	_	SKR9RH13	SKR9R	
9001SKR9R Non-Illuminated		Green		SKR9GH13	SKR9G	
1-5/8 in. Diameter Knob Includes Type KN179WP Legend Plate Marked Pull To Start Push To Stop	Maintained Push	Other [76]	_	SKR9▲H13	SKR9▲	

Table 19.251: Non-Illuminated Turn-to-Release Mushroom Operators [73]

	Description	Color	With 1 N.O. Contact (KA1)	With 2 N.O. /2 N.C. Contacts (2 KA1)	Without Contacts
90015KR16H2	2 Position, Plastic Head Turn-to-Release Trigger Action	Red	SKR16H13	SKR16H2	SKR16

Table 19.252: Screw-On Plastic Illuminated Push-Pull Mushroom Operators [73]

		•			
Illuminated	Description	Voltage	With Red Knob and 2 N.C. Contacts (1 KA3, 1 KA5) [78]	With Other Color Knob and 2 N.C. Contacts [76] [78]	With Other Color Knob Without Contacts [74] [76] [78]
	3 Position				
No.		110-120 V, 50-60 Hz	SKR8P1RH25	SKR8P1 ▲ H25	SKR8P1▲
O TOMOTO STATE OF THE PARTY OF	Momentary Pull- Maintained Neutral- Momentary Push [79]	Other—Transformer, LED, Flashing [80]	SKR8P♦RH25	SKR8P♦▲H25	SKR8P ♦ ▲
		Other—Full Voltage, Resistor, Neon [75]	SKR8P+RH25	SKR8P♦▲H25	SKR8P ♦ ▲
	Description	Voltage	With Red [77] Knob and 1 N.O. & 1 N.C. Contact (KA1)	With Other Color Knob and 1 N.O. & 1 N.C. Contact (KA1) [76]	With Other Color Knob Without Contacts [76]
9001SKR9P1	2 Position		·	· · · · · · · · · · · · · · · · · · ·	
Illuminated 1-5/8 in. Diameter Knob		110-120 V, 50-60 Hz	SKR9P1RH13	SKR9P1▲H13	SKR9P1▲
Includes Type KN179WP Legend Plate Marked	Maintained Pull- Maintained Push	Other—Transformer, L.E.D., Flashing [80]	SKR9P♦RH13	SKR9P◆▲H13	SKR9P ♦ ▲
Pull to Start Push To Stop	Manitanieu Fusii	Other—Full Voltage, Resistor, Neon [75]	SKR9P◆RH13	SKR9P♦▲H13	SKR9P ♦ ▲

Table 19.253: Color Codes

Table 13.233. Colol Codes		
Color	SKR11, SKR12	SKR8, SKR9
Black [81]	В	В
Red	R	R
Green	G	G
Blue	L	
Yellow	Υ	Υ
White	W	W
Orange [81]	S	S
Clear	_	С
Amber	_	A
Grav	E	ı

Table 19.255: Positions for 9001SKR8H25

Table 19.254: Positions for 9001SKR8RH1 or H13

		9	9001SKR8RH1 or H13			
		PULL	CTR	PUSH		
(KA1)	KA3	X	0	0	KA3	
(KAT)	KA2	0	0	Х	KA5	
					- KΔ2	

	9001SKR8H25				
	PULL	CTR	PUSH		
KA3	X	0	0		
KA5	X	X	0		
KA2	0	0	X		

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

- [73] When ordering, add prefix 9001 to the catalog number.
- 74] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the chosen "H" number to the end of the operator.
- [75] On neon light modules, use clear knobs only.
- [76] A See Table 19.253 Color Codes, page 19-88 and insert the color code in the Type number. Example: SKR9() with a yellow knob = SKR9Y
- [77] To obtain a red knob with "Push Emergency Stop" printed on the red knob—substitute "R05" in place of "R"
- 178] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-96. Example: SKR8P• with 277 V 50–60 Hz = SKR8P8
- [79] For positions, refer to Table 19.254 Positions for 9001SKR8RH1 or H13, page 19-88 and Table 19.255 Positions for 9001SKR8H25, page 19-88.
- [80] The knob must be the same color as the LED light module chosen, for example, for a green LED, use a green knob.
- [81] These colors are not available on illuminated push-pull operators.



Type SK Corrosion Resistant Illuminated Operators

Class 9001 / Refer to Catalog 9001CT1103

Type SK Corrosion Resistant Illuminated Operators

Table 19.256: Illuminated Push Button Operators

Description		Voltage and Frequency	Style	With Red Color Cap and 1 N.O. and 1 N.C. Contact (KA1) [82]	With Green Color Cap and 1 N.O.and 1 N.C. Contact (KA1) [82]	With Other Color Cap Without Contact Blocks [83] [82]
-		110-120 V, 50-60 Hz	Transformer	SK1L1RH13	SK1L1GH13	SK1L1
		220-240 V, 50-60 Hz	Transformer	SK1L7RH13	SK1L7GH13	SK1L7
18	Full Guard	24–28 Vac/Vdc	Full Voltage	SK1L35RH13	SK1L35GH13	SK1L35
	Illuminated		Transformer, Flashing	SK1L∎RH13	SK1L∎GH13	SK1L ■
	Push Button	For other voltages	Full Voltage	SK1L∎RH13	SK1L∎GH13	SK1L ■
		See Table [84]	Resistor, Neon [85]	SK1L∎RH13	SK1L∎GH13	SK1L ■
9001SK1L1			LED [86]	SK1L∎RH13	SK1L∎GH13	SK1L ■ [87]
The state of the s		110-120 V, 50-60 Hz	Transformer	SK2L1RH13	SK2L1GH13	SK2L1
(-95-27)		220-240 V, 50-60 Hz	Transformer	SK2L7RH13	SK2L7GH13	SK2L7
		24-28 Vac/Vdc	Full Voltage	SK2L35RH13	SK2L35GH13	SK2L35
	No Guard Illuminated	For other voltages See Table [84]	Transformer, Flashing	SK2L∎RH13	SK2L∎GH13	SK2L ■
	Push Button		Full Voltage	SK2L∎RH13	SK2L∎GH13	SK2L ■
			Resistor, Neon [85]	SK2L∎RH13	SK2L∎GH13	SK2L ■
9001SK2L1			LED[86]	SK2L∎RH13	SK2L∎GH13	SK2L ■ [87]
760-		110-120 V, 50-60 Hz	Transformer	SK2L1R20H13	SK2L1G20H13	
		220-240 V, 50-60 Hz	Transformer	SK2L7R20H13	SK2L7G20H13	
	1-3/8 in.	24-28 Vac/Vdc	Full Voltage	SK2L35R20H13	SK2L35G20H13	
	(35 mm) Illuminated		Transformer, Flashing	SK2L∎R20H13	SK2L∎G20H13	Order SK2L∎
	Mushroom,		Full Voltage	SK2L∎R20H13	SK2L∎G20H13	[87][88]
	Screw-On Plastic Head	For other voltages See Table [84]	Resistor, Neon [85]	SK2L∎R20H13	SK2L∎G20H13	
9001SK2L1R20	1 lastic Flead	occ lable [01]	LED [86]	SK2L∎R20H13	SK2L∎G20H13	
		110-120 V, 50-60 Hz	Transformer	SK2L1R21H13	SK2L1G21H13	
	0.444:	220-240 V, 50-60 Hz	Transformer	SK2L7R21H13	SK2L7G21H13	
	2-1/4 in. (57 mm)	24-28 Vac/Vdc	Full Voltage	SK2L35R21H13	SK2L35G21H13	
	Illuminated		Transformer, Flashing	SK2L∎R21H13	SK2L∎G21H13	Order SK2L■
P. C.	Mushroom, Screw-On	For other voltages	Full Voltage	SK2L∎R21H13	SK2L∎G21H13	[87][88]
	Plastic Head	See Table [84]	Resistor, Neon [85]	SK2L∎R21H13	SK2L∎G21H13	
9001SK2L1R21			LED [86]	SK2L∎R21H13	SK2L∎G21H13	

Table 19.257: Color Caps

		Color Codes	
Color	SK1L/SK2L	1-3/8 in. (35 mm) Mushroom	2-1/4 in. (57 mm) Mushroom
Red	R	R20	R21
Green	G	G20	G21
Blue	L	L20	L21
Yellow	Y	Y20	Y21
White	W	W20	W21
Clear	С	C20	C21
Amber	A	A20	A21

NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97. Contact blocks and legend plate not included unless otherwise noted.

[85] On neon light modules, use clear color caps only.

^[82] When ordering, add prefix 9001 to the catalog number.

^[83] These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the "H" number to the end of the operator type number.

^[84] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-96. EXAMPLE: SK2L_with 240 Vac/Vdc = SK2L25.

^[86] Add the color code as chosen from the color cap table below. **EXAMPLE: SK2L25 with a blue 1-3/8 in. mushroom button = SK2L25L20.**

^[87] The cap must be the same color as the LED light module chosen, e.g., for green LED, use green color cap.

^[88] The only difference between a no guard (SK2L) operator and mushroom button operator is the color cap.

Class 9001 / Refer to Catalog 9001CT1103

9001SK 2-Position Selector Switches

Table 19.258: 2-Position Selector Switches

	Contact I	Bloc	k Required					1—Conta 0—Conta	ct Closed act Open	
Contact Block Position	Quant KA1 or	ity ar KA2	nd Type Por KA3			Side or KA3	Left	Right	Left	Right
	010		KA3	KA1		KA3 #2	1	0	0	1
Side 2	KA100	or	KA200	KA1 #2	or	KA2 #2	0	1	1	0
Side 1			KA3			KA3 #1	1	0	0	1
Operator Locating Notch	KA1 ^O O	or	KA2 0 0	KA1 #1	or	KA2 #1	0	1	1	0
Top View			1012							
For Cam, see Type K, KX, and SK Select	or Switch Guide, pa	ge 19	9-83	•		•	E			D

Non-Illuminated Operators	Type [89]	Type [89]
Manual Return[90], Operator Only (without contact blocks)		
Without Knob	SKS11	SKS12
With Knob [91]	SKS11♦	SKS12◆
Operator with Contact Blocks and Standard black knob		
With 1 KA1 on Side #2	SKS11BH13	_
With 1 KA1 on Side #1	SKS11BH1	_
With 1 KA1 on Side #1 and 1 KA1 on side #2	SKS11BH2	_
Spring Return from Left [90], Operator Only (without contact blocks)		
Without Knob	SKS25	_
With Knob [91]	SKS25♦	_
Spring Return from Right [90], Operator Only (without contact blocks)		
Without Knob	_	SKS34
With Knob [91]	_	SKS34◆

Illuminated Operators	Type [89]	Type [89]
Manual Return [90], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	SK11J1	SK12J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK11J1R	SK12J1R
With other Color Knob [91]and other Voltage Light Module [92]	SK11J∎◆	SK12J∎♦
Spring Return from Left [90], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	SK25J1	_
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK25J1R	_
With other Color Knob [91]and other Voltage Light Module [92]	SK25J∎♦	_
Spring Return from Right [90], Operator Only (without contact blocks)		
Without Knob, 110-120V 50-60 Hz Transformer	_	SK34J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	_	SK34J1R
With other Color Knob [91] and other Voltage Light Module [92]	_	SK34J∎◆



Table 19.259: Selector Switch Assembly Code and Knob Cat. No.

0-1	Standard	Knob	Gloved Ha	ind Knob
Color	Knob Code	Cat. No. [89]	Knob Code	Cat. No. [89]
Black	В	B11	FB	B25
Red	R	R8	FR	R24
Green	G	G8	FG	G24
Yellow	Y	Y8	FY	Y24
Blue	L	L8	FL	L24
White	W	W8	FW	W24
Amber	A	A8	FA	A24
Clear	С	C8	FC	C24

Contact Blocks: Contact Blocks, page 19-95, Hermetically Sealed Logic Reed Contact Blocks, page 19-97, Hermetically Sealed Power Reed Contact Blocks, page 19-97 Light Modules: Standard Light Modules, page 19-96 Knobs and Accessories: Additional Accessories for Type K and SK Operators, page 19-105

^[89] When ordering, add prefix 9001 to the catalog number.

These operators can be ordered complete with contact blocks. For maximum block usage, see Table 19.280 "H" Codes, page 19-98. Add the chosen "H" number to the end of the operator.

• Add the knob color code chosen from Table 19.259 Selector Switch Assembly Code and Knob Cat. No., page 19-90. For LED, knob color must match LED. [90]

^[91]

^[92] ■ Add the voltage assembly code as chosen from Standard Light Modules, page 19-96. Example: K25J with 208Vac = K25J3



9001SK Corrosion Resistant Selector **Switches**

Class 9001 / Refer to Catalog 9001CT1103

9001SK 3-Position Selector Switches

Table 19.260: 3-Position Selector Switches

Conta	ct Block	_														1_	- Co	ntac	t Clo	has	0	— С	onta	ct O	nen								
Contact Block Position	Qu	uant and Type	tity I		Nour on Side		×	.∱,	1	×	.∱.	1	*	,∱,	1	×	.∱.	1	•	, ∱,	1	*	.∱.	1	N N	,∱,	1	•	ξ Α ,	1	•	ξ Α ,	1
	KA1		KA3	KA1		KA3 #2	1	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	0	1	0	1	1	0
Side 2 Side 1	30	or	KA2	#2	or	KA2 #2	0	1	1	0	0	1	0	1	0	0	1	0	0	0	1	0	1	1	0	1	1	1	0	0	0	0	1
Operator Locating	KA1		KA3	KA1		KA3 #1	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1	0	1	1
Top View	00	or	KA2 10	#1	or	KA2 #1	1	1	0	0	0	1	0	1	0	0	1	0	0	0	1	1	0	0	0	1	0	0	1	0	1	0	0
For Cam, see Type K, K page 19-83	X, and S	KS	elector S	Switch (Guid	e,		В			С			D			E			F	•		G			J	•		L			М	

Non-Illuminated Operators [93]	Type	Type							
Manual Return, Operator Only (without contact blocks)[94]									
Without Knob	SKS42	SKS43	SKS44	SKS45	SKS46	SKS47	SKS49	SKS401	SKS402
With Knob [95]	SKS42♦	SKS43♦	SKS44◆	SKS45♦	SKS46♦	SKS47♦	SKS49◆	SKS401◆	SKS402◆
Operator with Contact Blocks and Standard black knob [96]	1				•				
With 1 KA1 on Side #2 (H13)	SKS42B- H13	SKS43B- H13	SKS44B- H13	SKS45B- H13	SKS46BH13	SKS47B- H13	SKS49B- H13	SKS401B- H13	SKS402B- H13
With 1 KA1 on Side #1 (H1)	SKS42B- H1	SKS43BH1	SKS44BH1	SKS45B- H1	SKS46BH1	SKS47BH1	SKS49BH1	SKS401BH1	SKS402BH1
With 1 KA1 on Side #1 and 1 KA1 on side #2 (H2)	SKS42B- H2	SKS43BH2	SKS44BH2	SKS45B- H2	SSKS46B- H2	SKS47BH2	SKS49BH2	SKS401BH2	SKS402BH2
Spring Return from Left to Center, Operator Only (without o	ontact block	s) [94]			•				
Without Knob	SKS62	SKS63	SKS64	SKS65	SKS66	SKS67	SKS69	SKS601	SKS602
With Knob [95]	SKS62♦	SKS63♦	SKS64◆	SKS65♦	SKS66♦	SKS67♦	SKS69♦	SKS601◆	SKS602◆
Spring Return from Right to Center, Operator Only (without	contact bloc	ks) [94]			•				
Without Knob	SKS72	SKS73	SKS74	SKS75	SKS76	SKS77	SKS79	SKS701	SKS702
With Knob [95]	SKS72♦	SKS73♦	SKS74♦	SKS75♦	SKS76♦	SKS77♦	SKS79♦	SKS701◆	SKS702◆
Spring Return from Both Sides to Center, Operator Only (w	ithout contac	t blocks) [94]	1						
Without Knob	SKS52	SKS53	SKS54	SKS55	SKS56	SKS57	SKS59	SKS501	SKS502
With Knob [95]	SKS52◆	SKS53♦	SKS54♦	SKS55♦	SKS56♦	SKS57♦	SKS59◆	SKS501◆	SKS502◆

Illuminated Operators [93]	Туре	Type	Туре	Type	Type	Type	Type	Type	Туре
Manual Return, Operator Only (without contact blocks) [94]	1								
Without Knob, 110-120V 50-60 Hz Transformer	SK42J1	SK43J1	SK44J1	SK45J1	SK46J1	SK47J1	SK49J1	SK401J1	SK402J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK42J1R	SK43J1R	SK44J1R	SK45J1R	SK46J1R	SK47J1R	SK49J1R	SK401J1R	SK402J1R
With other Color Knob [95] and other Voltage Light Module [97]	SK42J∎◆	SK43J∎◆	SK44J∎◆	SK45J∎◆	SK46J∎◆	SK47J∎◆	SK49J∎◆	SK401J∎◆	SK402J ∎ ♦
Spring Return from Left to Center, Operator Only (without	contact block	s) [94]							
Without Knob, 110-120V 50-60 Hz Transformer	SK62J1	SK63J1	SK64J1	SK65J1	SK66J1	SK67J1	SK69J1	SK601J1	SK602J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK62J1R	SK63J1R	SK64J1R	SK65J1R	SK66J1R	SK67J1R	SK69J1R	SK601J1R	SK602J1R
With other Color Knob [95] and other Voltage Light Module [97]	SK62J∎◆	SK63J∎◆	SK64J∎◆	SK65J∎◆	SK66J∎◆	SK67J∎◆	SK69J∎◆	SK601J∎◆	SK602J ∎ ♦
Spring Return from Right to Center, Operator Only (withou	t contact bloc	ks) [94]							
Without Knob, 110-120V 50-60 Hz Transformer	SK72J1	SK73J1	SK74J1	SK75J1	SK76J1	SK77J1	SK79J1	SK701J1	SK702J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK72J1R	SK73J1R	SK74J1R	SK75J1R	SK76J1R	SK77J1R	SK79J1R	SK701J1R	SK702J1R
With other Color Knob [95] and other Voltage Light Module [97]	SK72J∎◆	SK73J∎◆	SK74J∎◆	SK75J∎◆	SK76J∎◆	SK77J∎◆	SK79J∎◆	SK701J∎◆	SK702J ∎ ♦
Spring Return from Both Sides to Center, Operator Only (w	ithout contac	t blocks) [94]	i						
Without Knob, 110-120V 50-60 Hz Transformer	SK52J1	SK53J1	SK54J1	SK55J1	SK56J1	SK57J1	SK59J1	SK501J1	SK502J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK52J1R	SK53J1R	SK54J1R	SK55J1R	SK56J1R	SK57J1R	SK59J1R	SK501J1R	SK502J1R
With other Color Knob [95] and other Voltage Light Module [97]	SK52J∎◆	SK53J∎◆	SK54J∎◆	SK55J∎◆	SK56J∎◆	SK57J∎◆	SK59J∎◆	SK501J ∎ ♦	SK502J∎◆

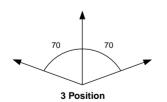


Table 19.261: Selector Switch Assembly Code and Knob Cat. No.

Outer	Standard	Knob	Gloved Ha	nd Knob
Color	[98] Knob Code	Cat. No. [93]	[98] Knob Code	Cat. No. [93]
Black	В	B11	FB	B25
Red	R	R8	FR	R24
Green	G	G8	FG	G24
Yellow	Y	Y8	FY	Y24
Blue	L	L8	FL	L24
White	W	W8	FW	W24
Amber	A	A8	FA	A24
Clear	С	C8	FC	C24

Contact Blocks: Contact Blocks, page 19-95, Hermetically Sealed Logic Reed Contact Blocks, page 19-97, Hermetically Sealed Power Reed Contact Blocks, page 19-97 Light Modules: Standard Light Modules, page 19-96 Knobs and Accessories: Additional Accessories for Type K and SK Operators, page 19-105

^[93] When ordering, add prefix 9001 to the catalog number.

^[94] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-98 as needed for your application.

^[95]

Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED.

For other color knobs replace the B with knob color code. See Table 19.261 Selector Switch Assembly Code and Knob Cat. No., page 19-91. 1961

[■] Add the voltage assembly code as chosen from Standard Light Modules, page 19-96. Example: K25J with 208Vac = K25J3 [97]

Add the knob color code. For LED, knob color must match LED.

9001SK Corrosion Resistant Selector **Switches**

Class 9001 / Refer to Catalog 9001CT1103



9001SK 4-Position Selector Switches

Table 19.262: 4-Position Selector Switches

	Contact Bloc	ck Re	quired						act Closed tact Open	
Contact Block Position	Qu	antity	and Type	Moui	nt on	Side	×	×	1	1
	KA1		KA3	KA1		KA3 #2	1	0	0	0
Side 2 Side 1	000	or	KA2	KA1 #2	or	KA2 #2	0	0	1	0
Operator Locating	KA1		KA3	KA1		KA3 #1	0	0	0	1
Notch Top View	0 0	or	KA2	#1	or	KA2 #1	0	1	0	0
Cam (see Type K, KX, and SK Selector Switch G	Guide, page 19-83)	•			•			H	ı	

Non-Illuminated Operators	Type [99]
Manual Return [100], Operator Only (without contact blocks)	
Without Knob	SKS88
With other Color Knob [101]	SKS88♦

Illuminated Operators	Type [99]
Manual Return [100], Operator Only (without contact blocks)	
Without Knob, 110-120V 50-60 Hz Transformer	SK88J1
With Standard Red Knob, 110-120V 50-60 Hz Transformer	SK88J1R
With other Color Knob [101] and other Voltage Light Module [102]	SK88J∎◆

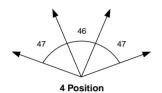


Table 19.263: Selector Switch Assembly Code and Knob Cat. No.

	Standard	Knob	Gloved Hand Knob		
Color	[103] Knob Code	Cat. No. [99]	[103] Knob Code	Cat. No. [99]	
Black	В	B11	FB	B25	
Red	R	R8	FR	R24	
Green	G	G8	FG	G24	
Yellow	Y	Y8	FY	Y24	
Blue	L	L8	FL	L24	
White	W	W8	FW	W24	
Amber	A	A8	FA	A24	
Clear	С	C8	FC	C24	

For Contact Blocks, see Contact Blocks, page 19-95, Hermetically Sealed Logic Reed Contact Blocks, page 19-97, Hermetically Sealed Power Reed Contact Blocks, page 19-97 For Light Modules, see Standard Light Modules, page 19-96 For Knobs and Accessories, see Additional Accessories for Type K and SK Operators, page 19-105

Potentiometers with Dial Plate

Table 19.264: Potentiometers with Dial Plate (not UL listed)—Maximum Voltage 300 Vac

Power	Description	Ratings	Туре
	Operator Only, for Single Potentiometer		SK20
2 W	Operator with Single Potentiometer	NEMA 4, 13	SK21
	Operator Only, for Tandem Potentiometer	NEIVIA 4, 13	SK22
	Operator with Tandem Potentiometer		SK23
When orderi	ng, add prefix 9001 to the catalog number.		

Table 19.265: Potentiometer Suffixes

Suffix [104]	Resistance	Suffix [104]	Resistance		
01	50 Ω	07	5 kΩ		
02	100 Ω	08	10 kΩ		
04	500 Ω	09	25 kΩ		
05	1 kΩ	13	500 kΩ		
39	2 kΩ	37	750 kΩ		
06	2.5 kΩ	14	1 ΜΩ		
Tandem Potentiom	eter				
Suffix [104]			Resistance		
Sullix [104]		Front	Rear		
82		1 kΩ	1 kΩ		

NOTE: Any potentiometer with a shaft 7/8 in. long and 1/4 in. diameter may be used with these operators.

When ordering, add prefix 9001 to the catalog number.

^[100] These operators can be ordered complete with contact blocks. Add the "H code" from Table 19.280 "H" Codes, page 19-98 as needed for your application.

^{[101] •} Add the knob color code chosen from the Selector Switch Assembly Code table. For LED, knob color must match LED.

^[102] Add the voltage assembly code as chosen from Standard Light Modules, page 19-96. Example: K25J with 208Vac = K25J3

^[103] Add the knob color code from Table 19.237. For LED, knob color must match LED

^[104] For the complete part number, add the suffix from this table to the catalog number from Table 19.264 Potentiometers with Dial Plate, page 19-92. Example: 9001K2105.



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Type SK Corrosion Resistant Pilot Lights

Class 9001 / Refer to Catalog 9001CT1103

Type SK Corrosion Resistant Pilot Lights

Table 19.266: Pilot Lights-UL Types 4, 4X, [105]

Description		Voltage	Style	With Red Fresnel Color Cap [106]	With Green Fresnel Color Cap [106]	With Other Color Cap [106] [107]	Without Color Cap [106]		
Ar.			110–120 V, 50–60 Hz	Transformer	SKP1R31	SKP1G31	SKP1∎	SKP1■ SKP1 SKP7■ SKP7	
	9001SKP1	Standard Pilot Light	220-240 V, 50-60 Hz	Transformer	SKP7R31	SKP7G31	Color Cap		
	90015KP1	(Fresnel color	24-28 Vac/Vdc	Full Voltage	SKP35R31	SKP35G31			
0		cap shown)	For other voltages	Transformer, Flashing or LED [108]	SKP▲R31	SKP ▲ G31	SKP∎		
			[106]	Full Voltage, Neon or Resistor [109]	SKP▲R31	SKP ▲ G31	SKP▲■	SKP▲	
			110–120 V, 50–60 Hz	Transformer	SKT1R31	SKT1G31	SKT1∎	SKT1	
	000401/74	Push-To-Test Pilot Light	220–240 V, 50–60 Hz	Transformer	SKT7R31	SKT7G31	SKT7∎	SKT7■ SKT7	
THE REAL PROPERTY.	9001SKT1	(Fresnel color	24-28 Vac/Vdc	Full Voltage	SKT35R31	SKT35G31	SKT35∎	SKT35	
		cap shown)	For other voltages	Transformer, Flashing or LED [108]	SKT▲R31	SKT ▲ G31	31 SKT▲■ SKT		
			[106]	Full Voltage, Neon or Resistor [109]	SKT ▲R31	SKT ▲ G31	SKT▲■	SKT▲	
		5	120 Vac Only	Resistor	SKTR38R31	SKTR38G31	SKTR38■	SKTR38	
		Remote Test Pilot Light	24-28 Vac Only	Full Voltage	SKTR35R31	SKTR35G31	SKTR35■	SKTR35	
	9001SKTR38	(Fresnel color cap shown)	For other voltages [106] [107] [110]	Full Voltage or Resistor [111]	SKTR ▲R31	SKTR▲G31	SKTR▲■	SKTR▲	

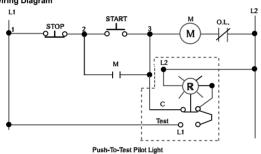


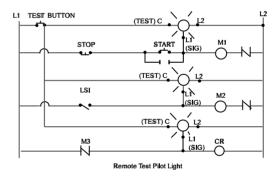


Table 19.267: Color Caps

Color	Plastic Fresnel [112]	Plastic Domed [112]
Amber	A31	A9
Blue	L31	L9
Clear	C31	C9
Green	G31	G9
Red	R31	R9
White	W31	W9
Yellow	Y31	Y9

Typical Wiring Diagram





NOTE: To select and order Contact Blocks, Light Modules, Knobs, and Accessories, see Type KA Contact Blocks, page 19-95 through Hermetically Sealed Power Reed Contact Blocks, page 19-97.

NOTE: For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97. Contact blocks and legend plate not included unless otherwise noted.

^[105] When ordering, add prefix 9001 to the catalog number.

^[106] Add the voltage assembly code as chosen from Standard and Shallow Depth Light Modules, page 19-96.EXAMPLE: SKT---R31 with 208 Vac red LED voltage = SKT37LRR31.

[■] Add the color code as chosen from the color cap table below. **EXAMPLE: SKP1 with a blue fresnel cap = SKP1L31.**

^[108] The cap must be the same color as the LED light module chosen, e.g., for a green LED, use a green color cap.

^[109] On neon light modules, use clear color caps only.

Use only full voltage or resistor voltage assembly codes on remote test pilot lights. Do not choose LED, neon or transformer codes. For AC use only. [110]

Use only full voltage or resistor voltage assembly codes on remote test pilot lights. Do not choose LED (exception — these LED codes are allowed: 38LG, 38LL, 38LR, 38LW, 38LY), neon or [111] transformer codes. For AC use only.

Add the color code as chosen from the color cap table below. **EXAMPLE: SKP1 with a blue fresnel cap = SKP1L31.**

Type SK Corrosion Resistant Multifunction Operators

Class 9001 / Refer to Catalog 9001CT1103



Type SK Corrosion Resistant Multifunction Operators

Table 19.268: Multifunction Operators—UL Types 4, 4X, 13/NEMA 4, 4X, 13 [113][114]

Interlocked Assembly		Description	Color	Contacts [115]	Without Contacts [115]
		Interlocked Assembly	Universal [116]	SKR11UH1	SKR11U
		Both Buttons Maintained	Other [117]	SKR11 ▼H1	SKR11▼
	9001SKR11U	Interlocked Assembly One Button Momentary	Universal [116]	SKR12UH1H1	SKR12U
		Interlocked Assembly One Button Maintained	Other [117]	SKR12▼H1H1	SKR12▼

^[113] For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97.

[114] Legend plate and contact block not included unless otherwise noted.

[115] When ordering, add prefix 9001 to the catalog number.

[116] Universal for SKR11,12 includes 2 each of black, red, green, yellow, orange, blue, white.

[117] ▼ Choose one color for each button. R = red, G = green, B = Black.Example: 9001SKR11 with top button gray and bottom button orange = 9001SKR11ES. See Table 19.253 Color Color procedure. Codes, page 19-88

Type K, SK and KX Electrical Components

Class 9001 / Refer to Catalog 9001CT1103

Table 19.269: Standard Contact Blocks

Description	Symbol	Type
(Clear Cover)	Direct-Acting	KA1
(Green Cover)	10	KA2
(Red Cover)	Direct-Acting	КАЗ
(Clear Cover)	Q.y.O Q.y.O N.O. Contact Early Closing	KA4
(Red Cover)	N.O. Contact Late Opening	KA5
(Green Cover)	Q y O N.O. Contact Early Closing	KA6

Table 19.270: Additional Circuit Arrangements

Description	Sym	bol	Type
Sequencing [118] N.O. Contact of KA4 closes before N.O. Contact on KA1	0 0 0 KA4	0 0 KA1	Order One Type KA4 and One Type KA1
Overlapping [118] N.O. Contact of KA4 closes before N.C. Contact of KA5 Opens	0 0 0 KA4	CLO KA5	Order One Type KA4 and One Type KA5

Type KA Contact Blocks

The Class 9001 Type KA contact blocks are Fingersafe® contact blocks (meeting VDE 0106 Part 100). They have one screw mounting and captive (backed out) plus/minus terminal screws. These contact blocks are double-break, direct-acting contacts. Because of the wiping action of these contacts, they are suitable for use with programmable controllers. All contact blocks listed below accept up to 2 #12-#24 AWG solid or stranded wires. Recommended tightening torque for screw terminals is 7 lb-in.

Symbol	Binder He	Blocks with ead Screws gersafe)	Gold Flashed Contacts with Standard Pressure Wire Terminals
	Type [119]	Quantity [120]	Type [119]
0 0	KA21	25–Up	KA31
-0	KA22	25–Up	KA32
6	KA23	25–Up	KA33
Q L Q Q y Q N.O. Early Closing	KA24	25–Up	KA34
N.C. Contact Late Opening	KA25	25–Up	KA35

Contact blocks listed below are not Fingersafe, but provide:

- Terminals that accept ring tongue/fork tongue connectors
- Short single circuit contact blocks (0.75" deep vs. 0.97" deep on the Fingersafe)
- Same as old style Series G product available prior to March, 1989.
- For assembled operators, use form Y238 (add to catalog number as suffix, for example: 9001KRU1H13Y238)



Table 19.271: Contact blocks (not Fingersafe)

Symbol	Type [119]	Symbol	Type [119]
0 0	KA1G	Q V O N.O. Contact Early Closing	KA4G
0 0	KA2G	N.C. Contact Late Opening	KA5G
010	KA3G	Q y O N.O. Contact Early Closing	KA6G

Table 19.272: Contact blocks with Quick-Connect terminals (not Fingersafe)

	· · · · · · · · · · · · · · · · · · ·
Symbol	Type [119]
0 0	KA12
010	KA13

Table 19.273: Maximum Current Ratings for Control Circuit Contacts—Types KA1-KA6, KA21-KA25, KA31-KA35, KA1G-KA6G

				AC						DC		
	Induct	ive (NEMA /	UL Type A600)	35% Powe	r Factor	Resistive 75% Power Factor	Volts			ctive and Resis	stive	
Volts	Mak	(e	Brea	ak	Continuous	Continuous Make, Break		Make and Break Co			Continuous	
	Amperes	VA	Amperes	VA	Carrying Amperes	Continuous Amperes		KA1	KA2 KA3	KA4	KA5 KA6	Carrying Capacity
120	60		6.0				125	0.55	0.55	_	_	
240	30	7200	3.0	720	10	10	250	0.27	0.27	_		2.5
480	15	7200	1.5	720	10	10	600	0.10	0.10	_		
600	12		1.2									

^[118] For push buttons or two-position selector switches only. For sequencing or overlapping contacts on other operators, refer to catalog 9001CT0001.

^[119] When ordering, add prefix 9001 to the catalog number

^[120] Minimum order quanitity is 25.

Standard and Shallow Depth Light Modules

Table 19.274: Standard Light Modules for Types K, SK, and KX Control Units[121][122][123][124]

	7.		Light Module	Voltage		Replacement Lamp
	Voltage	Description	Type[125]	Voltage Assembly Code	Rating	Part Number [121]
	All	Full Voltage (without Bayonet Base Lamp)	KM40	40	_	None
	6 Vac/Vdc	Full Voltage	KM31	31	.9 VA	2550101020
	6 Vac/Vdc	LED Red	KM31LR	31LR		6508805201
	6 Vac/Vdc	LED Green	KM31LG	31LG		6508805203
	6 Vac/Vdc	LED Yellow	KM31LY	31LY		6508805202
	12-14 Vac/Vdc	Full Voltage	KM32	32	1.2 VA	2550101037
	12-14 Vac/Vdc	LED Red	KM32LR	32LR		6508805201
	12-14 Vac/Vdc	LED Green	KM32LG	32LG		6508805203
	12-14 Vac/Vdc	LED Yellow	KM32LY	32LY		6508805202
	18 Vac/Vdc	Resistor	KM33	33	1.4 VA	2550101037
	24-28 Vac/Vdc	Full Voltage	KM35	35	1.2 VA	2550101002
	24-28 Vac/Vdc	LED Red	KM35LR	35LR	.28 VA	6508805210
	24-28 Vac/Vdc	LED Green	KM35LG	35LG	.28 VA	6508805212
	24-28 Vac/Vdc	LED Yellow	KM35LY	35LY	.28 VA	6508805211
	24-28 Vac/Vdc	LED White	KM35LW	35LW	.28 VA	6508805214
	24-28 Vac/Vdc	LED Blue	KM35LL	35LL	.28 VA	6508805213
	48 Vac/Vdc	Full Voltage	KM36	36	2.6 VA	2550101025
	110-120 V, 50-60 Hz	LED Red	KM1LR	1LR		6508805201
-0.0	110-120 V, 50-60 Hz	LED Green	KM1LG	1LG		6508805203
	110-120 V, 50-60 Hz	LED Yellow	KM1LY	1LY		6508805202
	110–120 V, 50–60 Hz	Transformer	KM1	1	2.4 VA	2550101020
9	110–120 V, 50–60 Hz	Flashing	KMF1	F1	.85 VA	2550101036
3 6	120 Vac/Vdc	Full Voltage/Resistor	KM38	38	3.0 VA	2550101030
		•				
CANDO	120 Vac/Vdc	Neon [126]	KM11	11	0.2 VA	2550101013
	120 Vac/Vdc	LED Red	KM38LR	38LR	1.4 VA	6508805210
4	120 Vac/Vdc	LED Green	KM38LG KM38LY	38LG 38LY	1.4 VA 1.4 VA	6508805212
	120 Vac/Vdc 120 Vac/Vdc	LED Yellow LED White	KM38LW	38LW	1.4 VA 1.4 VA	6508805211 6508805214
	120 Vac/Vdc	LED Blue	KM38LL	38LL	1.4 VA	6508805213
	208–220 V, 50–60 Hz	Transformer	KM3	3	2.5 VA	2550101020
	208–220 V, 50–60 Hz	LED Red	KM3LR	3LR	2.5 VA	6508805201
	208–220 V, 50–60 Hz		KM3LG	3LG		
	208–220 V, 50–60 Hz	LED Green				6508805203
		LED Yellow	KM3LY	3LY	-	6508805202
	208–220 V, 50–60 Hz	LED White	KM3LW	3LW	 	6508805215
	208–220 V, 50–60 Hz	LED Blue	KM3LL	3LL		6508805216
	220–240 V, 50–60 Hz	Transformer	KM7	7	2.0 VA	2550101020
	220–240 V, 50–60 Hz	LED Red	KM7LR	7LR		6508805201
	220–240 V, 50–60 Hz	LED Green	KM7LG	7LG	ļ	6508805203
	220–240 V, 50–60 Hz	LED Yellow	KM7LY	7LY		6508805202
	220-240 V, 50-60 Hz	LED White	KM7LW	7LW		6508805215
	220-240 V, 50-60 Hz	LED Blue	KM7LL	7LL		6508805216
	240 Vac/Vdc	Resistor	KM25	25	6.0 VA	2550101027
	240 Vac/Vdc	Neon [126]	KM12	12	0.3 VA	2550101013
	277 V, 50-60 Hz	Transformer	KM8	8	2.4 VA	2550101020
	380-480 V, 50-60 Hz	Transformer	KM5	5	2.8 VA	2550101020
	480 Vac/Vdc	Neon [126]	KM14	14	0.5 VA	2550101013
	EEO 600 V EO 60 Hz	Transformer	KME		0.5 V/A	2550101010

550-600 V, 50-60 Hz Transformer NOTE: Light modules are available in other voltages. For additional information, refer to Catalog 9001CT0001

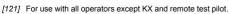
Table 19.275: Shallow Depth Light Modules For Types K and SK Control Units [121] [123] [122] [122]

	Voltage	Description	Light Module	Voltage Assembly Code	Rating	Replacement Lamp
	voltage	Description	Type[125]	Code	Railiy	Part Number
		Full Voltage	KM55	55	1.2 VA	2550101002
	24–28 Vac/Vdc	LED Red LED Green LED Yellow	KM55LR KM55LG KM55LY	55LR 55LG 55LY	0.5 VA	6508805204 6508805206 6508805205
		Full Voltage	KM58	58	3.0 VA	2550101027
000	110-120 Vac/Vdc	LED Red LED Green LED Yellow	KM58LR KM58LG KM58LY	58LR 58LG 58LY	0.5 VA	6508805204 6508805206 6508805205









^[122] For use in hazardous locations—See Square D Offering According to Class, Division, and Group, page 19-97.

^[123] With LED light modules, use either a clear color cap or a cap the same color as the LED.

^[124] With neon type light modules, use a **clear** color cap only.

^[125] When ordering, add prefix 9001 to the catalog number.
[126] Not for use on KX operators.

^[127] Reduces the depth of illuminated push buttons with contact blocks by over 33%.



Type K, SK and KX Electrical Components

Class 9001 / Refer to Catalog 9001CT1103

Hazardous locations do not always require the use of explosion-proof equipment like the Class 9001 Type BR control stations. Selecting the most appropriate device for the location can save you money. For more information on the types of hazardous locations, contact your local electrical inspector.

Table 19.276: Hazardous Locations

Types K SK



File: E10054 (N) CCN: NOIV



File: LR26817 Class: 3218 02



Square D Offering According to Class, Division, and Group

Table 19.277; Square D Offering According to Class, Division, and Group

				According to class, bivision, and croup
	For			Use
Class	Division	Group(s)		
1	1	Α	1.	Intrinsically Safe System
	4	B, C, D	1.	9001 BR station
ı		В, С, D	2.	Intrinsically Safe System
			1.	9001 K, SK, KX control stations with restrictions [128] [129]
ı	2	Α	2.	Intrinsically Safe System
			1.	9001 BR station
1	2	B, C, D	2.	9001 K, SK, KX control stations with restrictions [128] [129]
			3.	Intrinsically Safe System
	1	E, F, G	1.	9001 BR station
II	1	E, F, G	2.	Intrinsically Safe System
			1.	9001 BR station
II	2	E, F	2.	9001 K, SK, KX control stations with restrictions [128] [129]
			3.	Intrinsically Safe System
			1.	9001 BR station
II	2	G	2.	9001 K, SK, KX control stations with restrictions [130] [129]
			3.	Intrinsically Safe System
			1.	9001 BR Station
III	1, 2	_	2.	9001 K, SK, KX control stations with restrictions [130] [129]
			3.	Intrinsically Safe System

Hermetically Sealed Logic Reed Contact Blocks

Table 19.278: Hermetically Sealed Logic Reed Contact Blocks [131] [132] Suitable for use on low energy level circuits

Description	Symbol	Type [133]
The maximum number of logic and/or power reed contact blocks per operator is	E [^] 4:	KA41
The maximum number of logic and/or power reed contact blocks per operator is as indicated on individual selection tables for standard contact blocks, except :	\ •	KA42
 On 3 position selector switches with cams C, D, E, F, G, L, or M, mount reed 	1.	NA42
blocks on one side only (either side), maximum 2 in tandem.		KA43
 On 4 position selector switches, mount reed blocks on one side only (either 	t	NA43
side), maximum 2 in tandem.		160.44
 On joysticks or on Type KR8 or SKR8 push-pull operators, mount reed blocks on one side only (either side), maximum 2 in tandem. 		KA44
on one side only (either side), maximum 2 in tandem.	;}^ 4 :	KA45

Max. Vac/Vdc	Maximum Load						
Max. vac/vuc	Resistive	Inductive	Continuous				
32/30	.25 A	.10 A	.5 A				
120/100	8 VA	3 VA	.5 A				

Hermetically Sealed Power Reed Contact Blocks

Table 19.279: Hermetically Sealed Power Reed Contact Blocks [131] [132] [134]

Description	Symbol	Type [133]
The maximum number of logic and/or power reed contact blocks per operator is	E [^] d;	KA51
as indicated on individual selection tables for standard contact blocks, except:	\ ••	KA52
 On 3 position selector switches with cams C, D, E, F, G, L, or M, mount reed 	1.	NA52
blocks on one side only (either side), maximum 2 in tandem.	• ²	KA53
On 4 position selector switches, mount reed blocks on one side only (either	<u> </u>	KA53
side), maximum 2 in tandem.		KA54
 On joysticks or on Type KR8 or SKR8 push-pull operators, mount reed blocks on one side only (either side), maximum 2 in tandem. 	1: 1	KA54
on one side only (either side), maximum 2 in tandem.	1\^\1	KA55
	•II I•	1

1/-16-	Ma	ıke	Brea	0				
Volts	Α	VA	Α	VA	Continuous			
AC NEMA C300 [1	135]							
120	10.00	1200	1.000	120	2.0			
240	5.00	1200	.500	120	3.0			
DC NEMA Q150 [136]								
115	.50	58	.50	58	3.0			

[128] Any Class 9001 Type K, SK or KX operator can be used in an area classified as Class I, Division 2 hazardous locations, if:

- Only logic (KA40 series) or power (KA50 series) reed contact blocks are used.
- 2. All Type K and SK illuminated operators are UL approved for use in Class I Division 2 areas. (Add Form Y243 to single lamp Push-To-Test pilot lights.)
- 3. Type KX illuminated operators do not use 4 lamp light modules, or 2 lamp light modules other than the transformer type. (Add Form Y243 to single lamp Push-To-Test pilot lights.) 4. The operators are mounted in any NEMA 4 & 13 enclosures.
- 4. The operators are mounted in any NEMA 4 & [129] UL Listed: File E10054(N), CCN NOIV.
- [130] Any Class 9001 Type K, SK, or KX operator mounted in a Class 9001 Type KY, KYSS, KYAF, SKY enclosure may be used, except potentiometer operators.
- [131] Not for use in pendant stations
- [132] When ordering, add prefix 9001 to the catalog number.
- [133] All contact blocks listed below accept #12-18 solid or stranded wire.
- 1/134/1 The power reed contact blocks can be used with standard industrial relays and starters through NEMA Size 4. Minimum voltage is 5 V and the minimum current is 1 mA.
- [135] Inductive Rating—35% Power Factor.
- [136] Inductive and Resistive Ratings

Type K, SK and KX Contact Block "H" Numbers

Class 9001 / Refer to Catalog 9001CT1103



Type K, SK, and KX Contact Block "H" Numbers

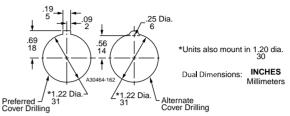
The design of Class 9001 Type KA contact blocks allows them to be mounted side by side and/or in tandem. This enables you to specify an operator and a specific arrangement of contact blocks (shipped fully assembled) with a single Type number.

Table 19.280: "H" Codes

	Suffix No.			Posi	tions		
	(Add to Operator Type)	1	2	3	4	5	6
Example: A Type KR1B	H1	KA1					
push button with 2 Type	H2	KA1	KA1				
KA1 contact blocks would	H3	KA1	KA1	KA1			
be Class 9001	H4	KA1	KA1	KA1	KA1		
Type KR1BH2.	H5	KA2					
	H6	KA3					
t t	H7	KA2	KA2				
	H8	KA3	KA3				
	H9	KA4	KA1				
Greenstranner.	H10	KA4	KA5				
	H11	KA1	KA1		KA1		
	H12	KA2	KA3	KA2	KA3		
	H13		KA1				
12 0	H14		KA3				
PROPERTY	H15	KA2	KA3				
	H16	KA2	KA3	KA2	KA3		
	H17	KA1	KA1	KA2			
	H18	KA3	KA1	KA2			
000	H19	KA1	KA1	KA3		KA3	
	H21	KA2	KA3	KA1	KA1	KA1	
Side 1 Side 2	H23	KA1	KA1				
,	H24	KA1	KA2				
Locating Nib	H25	KA5	KA3	KA1	KA1	KA1	KA1
NOTE: For "I I" Codes not in							

NOTE: For "H" Codes not in this table, contact your local Schneider Electric Customer Care Center.

Mounting Hole for All Types K, SK, and KX Control Units

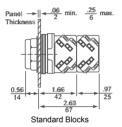


Hole Punch: Use Greenlee Tool #60242 to punch mounting hole and notch.

Maximum Contact Block Usage(Includes Types K, SK and KX)

- 2 blocks mounted side by side only: Any 2, 3 or 4 position spring return selector switch (non-illuminated, illuminated or keyed).
- 2 blocks mounted in tandem 1 side only: Any 2 operator interlocked push button.
- 2 blocks mounted in tandem (total of four blocks): Any selector push button, keyed push button, 2, 3, or 4 position maintained selector switch (non-illuminated, illuminated or keyed), push-pull operators (non-illuminated or illuminated), joy stick, dual oush button.
- 3 blocks mounted in tandem (total of six blocks): Single momentary push buttons (non-illuminated or illuminated).

Table 19.281: Dimensions When Using Contact Blocks



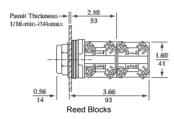


Table 19.282: Basic Operators (Without Color Caps, Mushroom Buttons, Knobs, Selector Switch Cams, Contact Blocks, Light Modules, or Legend Plates)

	For UL Types/NEMA				
Description	1, 3R, 4, 12, 13 <i>[137]</i>	4, 4X, 13 [137]			
Non-Illuminated Push Button (Extended Guard)	KR2	SKR2			
Non-Illuminated Push Button (No Guard)	KR3	SKR3			
Non-Illuminated Push Button (Mushroom Button/ Screw-On)	KR20	SKR20			
Non-Illuminated Dual Push Button (Momentary)	KR6	I			
Non-Illuminated Dual Push Button (Momentary Interlocked)	KR67				
Non-Illuminated Dual Push Button (Maintained Interlocked)	KR7	ı			
Momentary Pull—Maintained Neutral— Momentary Push	KR8 [138] [139]	SKR8 [138]			
Maintained Pull—Maintained Push	KR9 [138] [139]	SKR9 [138]			
Illuminated Push Button (Full Guard—Plastic Top)	K1L [140]	SK1L [140]			
Illuminated Push Button and Push-To-Test (No Guard)	K2L [140] [141]	SK2L [140] [141]			
Illuminated Push Button (Full Guard—Metal Top)	K3L [140]	I			
Standard Pilot Light	KP	SKP			
3 Position Maintained Selector Switch	KS4 [138]	SKS4 [138]			
3 Position Spring Return Both Sides To Center— Selector Switch	KS5 [138]	SKS5 [138]			
3 Position Spring Return Left To Center—Selector Switch	KS6 [138]	SKS6 [138]			
3 Position Spring Return Right To Center— Selector Switch	KS7 [138]	SKS7 [138]			

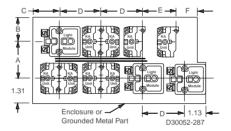


Table 19.283: Min. Centerline Spacing, Type K & SK Control Units

Legend	egend Operator			Centerline Spacing (in.)							
Plate	Operator	Α	В	С	D	Е	F				
Legend F	Plate Orientation Position #1										
KN2	Standard Push Button	1.75	1.31	1.44	2.25	1.69	0.88				
	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	1.69	0.88				
KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	1.75	1.31	1.44	2.25	1.69	0.88				
KN3	Standard Push Button	2.00	1.31	1.44	2.25	1.75	0.88				
	1.375 in. Dia. Mushroom	2.00	1.31	1.44	2.25	1.75	0.88				
KINS	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	2.00	1.31	1.44	2.25	1.75	0.88				
KN4	Standard Push Button	1.94	1.31	1.44	2.25	1.62	0.88				
	1.375 in. Dia. Mushroom	1.94	1.31	1.44	2.25	1.62	0.88				
KIN4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	1.74	1.31	1.44	2.25	1.62	0.88				
KN6	Standard Push Button	2.38	1.62	1.44	2.25	2.25	1.12				
	1.375 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.12				
KINO	2.25 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	2.38	1.62	1.44	2.25	2.25	1.12				
Legend F	Plate Orientation Position #2			•		•					
KN2	Standard Push Button	1.62	1.31	1.44	2.25	1.75	0.88				
	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.75	0.88				
KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	1.62	1.31	1.44	2.25	1.75	0.88				
KN3	Standard Push Button	1.75	1.31	1.44	2.25	2.00	0.88				
	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	2.00	0.88				
KINS	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	1.75	1.31	1.44	2.25	2.00	0.88				
KN4	Standard Push Button	1.62	1.31	1.44	2.25	1.94	1.00				
	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.94	1.00				
r\i\4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.12				
	Selector Switch Knobs	1.62	1.31	1.44	2.25	1.94	1.00				
KN6	Standard Push Button	2.25	1.31	1.62	2.38	2.38	0.88				
	1.375 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	0.88				
KINO	2.25 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	1.12				
	Selector Switch Knobs	2.25	1.31	1.62	2.38	2.38	0.88				

^[137] When ordering, add prefix 9001 to the catalog number.

^[138] Operator can be converted to an illuminated operator by removing the liner (6512240601) and adding a light module.

^[139] These operators can be supplied with 1-3/8 in or 2-1/4 in dia. mushroom buttons. For 1-3/8 in.: add () 20 to type number. For 2-1/4 in.: Add () 21 to type number. The () refers to the color chosen—see Additional Accessories for Type K and SK Operators, page 19-105. Voids UL and NEMA 6 Rating.

^[140] Operator can be converted to a non-illuminated operator by adding liner (6512240601).

^[141] Operator includes jumper wires for push-to-test conversion.



Type K and SK Accessories Class 9001 / Refer to Catalog 9001CT1103

Legend Plates for Types K and SK Operators

Table 19.284: Legend Plates

				Plastic L	egend Plates	[142] [143]				Aluminu	m Legend Pl	ates [144]
		4 0/4" 0		for use with	Types K and S	SK Operators		0.4/01/ 0			with Type K (perators
Standard	0.11	1-3/4" Square		0.11	2-1/4" Square		011	2-1/2" Square		Black Legend	Black Legend	Blue
Markings	Silver Legend	White Legend	Black Legend	Silver Legend	White Legend	Black Legend	Silver Legend	White Legend	Black Legend			Legend
	Legend with	Legend with	Legend with	with	Legend with	with	Legend with	with	Legend with			
	Black Letters	Black Letters	White Letters	Black Letters	Black Letters	White Letters	Black Letters	Black Letters	White Letters			
or Push Butto										KN200	KN300	KN800
Blank	KN200SP	KN200WP	KN200BP	KN100SP	KN100WP	KN100BP	KN700SP	KN700WP	KN700BP	KN200	KN300	KN800
Blank (red)	KN200RP■	KN200RP■	KN200RP■	KN100RP∎	KN100RP■	KN100RP■	KN700RP■	KN700RP∎	KN700RP∎	KN200R▲	KN300R▲	KN800R
Start	KN201SP	KN201WP	KN201BP	KN101SP	KN101WP	KN101BP	KN701SP	KN701WP	KN701BP	KN201	KN301	KN801
Stop	KN202RP■	KN202RP■	KN202RP■	KN102RP■	KN102RP■	KN102RP■	KN702RP■	KN702RP■	KN702RP■	KN202 ▲	KN302 ▲	KN802 ▲
On Off	KN203SP KN204RP■	KN203WP KN204RP■	KN203BP KN204RP■	KN103SP KN104RP■	KN103WP KN104RP■	KN103BP KN104RP■	KN703SP KN704RP∎	KN703WP KN704RP■	KN703BP KN704RP■	KN203 KN204 ▲	KN303 KN304 ▲	KN803 KN804 ▲
Emerg. Stop	KN205RP∎	KN205RP∎	KN205RP∎	KN105RP∎	KN105RP■	KN105RP∎	KN705RP∎	KN705RP∎	KN705RP∎	KN205 ▲	KN305▲	KN805 ▲
Forward	KN206SP	KN206WP	KN206BP	KN106SP	KN106WP	KN106BP	KN706SP	KN706WP	KN706BP	KN206	KN306	KN806
Reverse	KN207SP	KN207WP	KN207BP	KN107SP	KN107WP	KN107BP	KN707SP	KN707WP	KN707BP	KN207	KN307	KN807
Close	KN208SP	KN208WP	KN208BP	KN108SP	KN108WP	KN108BP	KN708SP	KN708WP	KN708BP	KN208	KN308	KN808
Open	KN209SP	KN209WP	KN209BP	KN109SP	KN109WP	KN109BP	KN709SP	KN709WP	KN709BP	KN209	KN309	KN809
<u>Down</u> Up	KN210SP KN211SP	KN210WP KN211WP	KN210BP KN211BP	KN110SP KN111SP	KN110WP KN111WP	KN110BP KN111BP	KN710SP KN711SP	KN710WP KN711WP	KN710BP KN711BP	KN210 KN211	KN310 KN311	KN810 KN811
Fast	KN211SP KN212SP	KN211WP KN212WP	KN211BP KN212BP	KN111SP KN112SP	KN111WP KN112WP	KN111BP KN112BP	KN711SP KN712SP	KN711WP KN712WP	KN711BP KN712BP	KN211	KN311 KN312	KN812
Slow	KN213SP	KN213WP	KN213BP	KN112SP KN113SP	KN113WP	KN113BP	KN712SP KN713SP	KN713WP	KN713BP	KN212 KN213	KN312 KN313	KN813
High	KN214SP	KN214WP	KN214BP	KN114SP	KN114WP	KN114BP	KN714SP	KN714WP	KN714BP	KN214	KN314	KN814
Low	KN215SP	KN215WP	KN215BP	KN115SP	KN115WP	KN115BP	KN715SP	KN715WP	KN715BP	KN215	KN315	KN815
nch	KN216SP	KN216WP	KN216BP	KN116SP	KN116WP	KN116BP	KN716SP	KN716WP	KN716BP	KN216	KN316	KN816
ln log	KN217SP	KN217WP	KN217BP	KN117SP	KN117WP	KN117BP	KN717SP	KN717WP	KN717BP	KN217	KN317	KN817
Jog Jog For.	KN218SP KN219SP	KN218WP KN219WP	KN218BP KN219BP	KN118SP KN119SP	KN118WP KN119WP	KN118BP KN119BP	KN718SP KN719SP	KN718WP KN719WP	KN718BP KN719BP	KN218 KN219	KN318 KN319	KN818 KN819
Jog For. Jog Rev.	KN219SP KN220SP	KN219WP KN220WP	KN219BP KN220BP	KN119SP KN120SP	KN119WP KN120WP	KN119BP KN120BP	KN719SP KN720SP	KN719WP KN720WP	KN719BP KN720BP	KN219 KN220	KN319 KN320	KN819 KN820
Lower	KN220SP KN221SP	KN221WP	KN221BP	KN120SP KN121SP	KN120WP KN121WP	KN120BP KN121BP	KN720SP KN721SP	KN720WP KN721WP	KN720BP KN721BP	KN220 KN221	KN320 KN321	KN821
Out	KN222SP	KN222WP	KN222BP	KN122SP	KN122WP	KN122BP	KN722SP	KN722WP	KN722BP	KN222	KN321	KN822
Reset	KN223SP	KN223WP	KN223BP	KN123SP	KN123WP	KN123BP	KN723SP	KN723WP	KN723BP	KN223	KN323	KN823
Run	KN224SP	KN224WP	KN224BP	KN124SP	KN124WP	KN124BP	KN724SP	KN724WP	KN724BP	KN224	KN324	KN824
Start Jog	KN225SP	KN225WP	KN225BP	KN125SP	KN125WP	KN125BP	KN725SP	KN725WP	KN725BP	KN225	KN325	KN825
Test	KN226SP	KN226WP	KN226BP KN227BP	KN126SP	KN126WP KN127WP	KN126BP	KN726SP	KN726WP	KN726BP	KN226 KN227	KN326 KN327	KN826
Raise Decrease	KN227SP KN228SP	KN227WP KN228WP	KN228BP	KN127SP KN128SP	KN127WP KN128WP	KN127BP KN128BP	KN727SP KN728SP	KN727WP KN728WP	KN727BP KN728BP	KN227 KN228	KN327 KN328	KN827 KN828
Increase	KN229SP	KN229WP	KN229BP	KN129SP	KN129WP	KN129BP	KN729SP	KN729WP	KN729BP	KN229	KN329	KN829
Left	KN230SP	KN230WP	KN230BP	KN130SP	KN130WP	KN130BP	KN730SP	KN730WP	KN730BP	KN230	KN330	KN830
Right	KN231SP	KN231WP	KN231BP	KN131SP	KN131WP	KN131BP	KN731SP	KN731WP	KN731BP	KN231	KN331	KN831
Cycle Start	KN232SP	KN232WP	KN232BP	KN132SP	KN132WP	KN132BP	KN732SP	KN732WP	KN732BP	KN232	KN332	KN832
Feed Start	KN233SP	KN233WP	KN233BP	KN133SP	KN133WP	KN133BP	KN733SP	KN733WP	KN733BP	KN233	KN333	KN833
Cycle Stop	KN234SP	KN234WP	KN234BP	KN134SP	KN134WP	KN134BP	KN734SP	KN734WP	KN734BP	KN234	KN334	KN834
Motor Run Motor Stop	KN236SP KN237SP	KN236WP KN237WP	KN236BP KN237BP	KN136SP KN137SP	KN136WP KN137WP	KN136BP KN137BP	KN736SP KN737SP	KN736WP KN737WP	KN736BP KN737BP	KN236 KN237	KN336 KN337	KN836 KN837
Power On	KN238SP	KN238WP	KN238BP	KN138SP	KN138WP	KN138BP	KN738SP	KN738WP	KN738BP	KN238	KN338	KN838
Pull To Start	N/A	N/A	N/A	KN179SP	KN179WP	KN179BP	KN779SP	KN779WP	KN779BP	N/A	KN379	N/A
Push To Stop			IN/A	KN1795F	KN179WF	KN179BF	KN7793F	KIN779WF	KINTTSDF	IN/A	KN379	IN/A
For Selector Sw ForRev.	KN239SP		KN239BP	KN139SP	KNI130WD	KN139BP	VNI720CD	KNIZ20M/D	KN739BP	KN239	KN339	KN839
rorRev. Hand-Auto.	KN240SP	KN239WP KN240WP	KN240BP	KN140SP	KN139WP KN140WP	KN139BP KN140BP	KN739SP KN740SP	KN739WP KN740WP	KN740BP	KN239 KN240	KN340	KN840
High-Low	KN241SP	KN241WP	KN241BP	KN141SP	KN141WP	KN141BP	KN741SP	KN741WP	KN741BP	KN241	KN341	KN841
Jog-Run	KN242SP	KN242WP	KN242BP	KN142SP	KN142WP	KN142BP	KN742SP	KN742WP	KN742BP	KN242	KN342	KN842
ManAuto.	KN243SP	KN243WP	KN243BP	KN143SP	KN143WP	KN143BP	KN743SP	KN743WP	KN743BP	KN243	KN343	KN843
Off-On	KN244SP	KN244WP	KN244BP	KN144SP	KN144WP	KN144BP	KN744SP	KN744WP	KN744BP	KN244	KN344	KN844
On-Off	KN245SP	KN245WP	KN245BP	KN145SP	KN145WP	KN145BP	KN745SP	KN745WP	KN745BP	KN245	KN345	KN845
Open-Close	KN246SP	KN246WP	KN246BP	KN146SP	KN146WP	KN146BP	KN746SP	KN746WP	KN746BP	KN246	KN346	KN846
Raise-Lower Run-Jog	KN247SP KN248SP	KN247WP KN248WP	KN247BP KN248BP	KN147SP KN148SP	KN147WP KN148WP	KN147BP KN148BP	KN747SP KN748SP	KN747WP KN748WP	KN747BP KN748BP	KN247 KN248	KN347 KN348	KN847 KN848
Slow-Fast	KN250SP	KN250WP	KN250BP	KN150SP	KN150WP	KN150BP	KN750SP	KN750WP	KN750BP	KN250	KN350	KN850
Start-Stop	KN251SP	KN251WP	KN251BP	KN151SP	KN151WP	KN151BP	KN751SP	KN751WP	KN751BP	KN251	KN351	KN851
Up-Down	KN253SP	KN253WP	KN253BP	KN153SP	KN153WP	KN153BP	KN753SP	KN753WP	KN753BP	KN253	KN353	KN853
Low-High	KN254SP	KN254WP	KN254BP	KN154SP	KN154WP	KN154BP	KN754SP	KN754WP	KN754BP	KN254	KN354	KN854
Stop-Start	KN255SP	KN255WP	KN255BP	KN155SP	KN155WP	KN155BP	KN755SP	KN755WP	KN755BP	KN255	KN355	KN855
Left-Right	KN256SP	KN256WP	KN256BP	KN156SP	KN156WP	KN156BP	KN756SP	KN756WP	KN756BP	KN256	KN356	KN856
On-Auto	KN276SP	KN276WP	KN276BP	KN176SP	KN176WP	KN176BP	KN776SP	KN776WP	KN776BP	KN276	KN376	KN876
Auto-Off-Hand	KN258SP	KN258WP	KN258BP	KN158SP	KN158WP	KN158BP	KN758SP	KN758WP KN759WP	KN758BP	KN258	KN358	KN858
ForOff-Rev. Hand-Off-Auto.	KN259SP KN260SP	KN259WP KN260WP	KN259BP KN260BP	KN159SP KN160SP	KN159WP KN160WP	KN159BP KN160BP	KN759SP KN760SP	KN759WP KN760WP	KN759BP KN760BP	KN259 KN260	KN359 KN360	KN859 KN860
Man-Off-Auto	KN262SP	KN262WP	KN262BP	KN162SP	KN162WP	KN162BP	KN762SP	KN762WP	KN762BP	KN262	KN362	KN862
Open-Off-Close		KN263WP	KN263BP	KN163SP	KN163WP	KN163BP	KN763SP	KN763WP	KN763BP	KN263	KN363	KN863
Up-Off-Down	KN264SP	KN264WP	KN264BP	KN164SP	KN164WP	KN164BP	KN764SP	KN764WP	KN764BP	KN264	KN364	KN864
Low-Off-High	KN265SP	KN265WP	KN265BP	KN165SP	KN165WP	KN165BP	KN765SP	KN765WP	KN765BP	KN265	KN365	KN865
Jog-Stop-Run	KN267SP	KN267WP	KN267BP	KN167SP	KN167WP	KN167BP	KN767SP	KN767WP	KN767BP	KN267	KN367	KN867
High-Low-Off	KN270SP	KN270WP	KN270BP	KN170SP	KN170WP	KN170BP	KN770SP	KN770WP	KN770BP	KN270	KN370	KN870
High-Off-Low	KN277SP	KN277WP	KN277BP	KN177SP	KN177WP	KN177BP KN178BP	KN777SP KN778SP	KN777WP	KN777BP	KN277	KN377	KN877 KN878
	KN278SP	KN278WP	KN278BP	KN178SP				KN778WP	KN778BP	KN278		

Table 19.285: Legend Plates-Special Marking

Legend Plate	Description		Type [145]
-	Standard Markings		See Table 19.284 Legend Plates, page 19-99
KN100()P	_	Silver Field, Black Letters	KN199SP
(Plastic) [146]	Special Marking	White Field, Black Letters	KN199WP
2.25 in Square	[147]	Red Field, Black Letters	KN199RP
		Black Field, White Letters	KN199BP
	Standard Markings	· ·	See Table 19.284 Legend Plates, page 19-99
KN200 Aluminum	Special Marking	Black Field	KN299
Aluminum	[147]	Red Field	KN299R
	Standard Markings		See Table 19.284 Legend Plates, page 19-99
		Silver Field, Black Letters	KN299SP
KN200()P (Plastic) [146] 1.7 in. Square	Special Marking	White Field, Black Letters	KN299WP
(Flastic) [140] 1.7 III. Square	[147]	Red Field, Black Letters	KN299RP
		Black Field, White Letters	KN299BP
	Standard Markings		See Table 19.284 Legend Plates, page 19-99
KN300 Aluminum	Special Marking	Black Field	KN399
	[147]	Red Field	KN399R
KN400	Blank	<u> </u>	KN400
Aluminum	Any Marking [147]		KN499
KN500	Standard Markings		Select from Table 19.290 Special Legend Plates, page 19- 101
Aluminum	Special Marking	Black Field	KN599
	[147]	Green Red Field	KN519
	Blank	Black Field	KN600
KN600		Red Field	KN600R
Aluminum	Any Marking	Black Field	KN699
	[147]	Red Field	KN699R
	Standard Markings		Select from Table 19.284 Legend Plates, page 19-99
KN700()P		Silver Field, Black Letters	KN799SP
(Plastic) [146]	Special Marking	White Field, Black Letters	KN799WP
2.5 in. Square	[147]	Red Field, Black Letters	KN799RP
		Black Field, White Letters	KN799BP
141000	Standard Markings		Select from Table 19.284 Legend Plates, page 19-99
KN800 Aluminum	Special Marking	Blue Field	KN899
Aluminum	[147]	Red Field	KN899R
KN900	Blank		KN900
Aluminum	Any Marking [147]		KN999

Table 19.286: Maximum Number of Lines and Characters for Type KN Legend Plates

Туре	KN100	KN200	KN300	KN400	KN500	KN600	KN700	KN800	KN900
Max. No. of Characters per Line	16	14	18	18	8 per field	22	17	18	18 per pos.
Max. No. of Lines	2	1	3	2	2 per field	4	2	2	1 per pos.

NOTE: The maximum number of characters and lines is a practical maximum, based on a minimum size of characters to facilitate easy reading.

Table 19.287: Circular Legends for Emergency Stop Mushroom Heads (yellow background)

Diameter	Text	Catalog Number [145]
60	_	9001KN9100
60 mm	EMERGENCY STOP	9001KN9330
00	_	9001KN8100
90 mm	EMERGENCY STOP	9001KN8330

Table 19.288: Plastic Legend Plates—Other Colors

	Plate Color	Letter Color	1.7 in. Square [145]	2.25 in. Square [145]	2.5 in. Square [145]
	Yellow	Black	KN200YP	KN100YP	KN700YP
Blank Legend	Green		KN200GP	KN100GP	KN700GP
Plates	Blue	White	KN200LP	KN100LP	KN700LP
	Red		KN200CP	KN100CP	KN700CP
0	Yellow	Black	KN299YP	KN199YP	KN799YP
Special Engraved			KN299GP	KN199GP	KN799GP
Legend Plates	Blue	White	KN299LP	KN199LP	KN799LP
	Red		KN299CP	KN199CP	KN799CP

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Table 19.289: Min. Centerline Spacing, Type K & SK Control Units

l o	gend Plate	Operator			Centerline S	Spacing (in.)		
Le	genu Flate	Operator	Α	В	С	D	Е	F
end Plate Orientation I	Position #1							
		Standard Push Button	1.75	1.31	1.44	2.25	1.69	0.8
	KN2	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	1.69	0.8
	KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
		Selector Switch Knobs	1.75	1.31	1.44	2.25	1.69	8.0
		Standard Push Button	2.00	1.31	1.44	2.25	1.75	3.0
	KNIO	1.375 in. Dia. Mushroom	2.00	1.31	1.44	2.25	1.75	3.0
	KN3	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
		Selector Switch Knobs	2.00	1.31	1.44	2.25	1.75	3.0
		Standard Push Button	1.94	1.31	1.44	2.25	1.62	3.0
	1014	1.375 in. Dia. Mushroom	1.94	1.31	1.44	2.25	1.62	3.0
Legend Plate	KN4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
Position #1		Selector Switch Knobs	1.74	1.31	1.44	2.25	1.62	3.0
1 03111011 #1		Standard Push Button	2.38	1.62	1.44	2.25	2.25	1.1
	KN6	1.375 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.1
		2.25 in. Dia. Mushroom	2.38	1.62	1.44	2.25	2.25	1.1
		Selector Switch Knobs	2.38	1.62	1.44	2.25	2.25	1.1
end Plate Orientation I	Position #2							
		Standard Push Button	1.62	1.31	1.44	2.25	1.75	3.0
	KN2	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.75	3.0
	KN5	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
		Selector Switch Knobs	1.62	1.31	1.44	2.25	1.75	0.0
		Standard Push Button	1.75	1.31	1.44	2.25	2.00	0.8
	KN3	1.375 in. Dia. Mushroom	1.75	1.31	1.44	2.25	2.00	0.8
	KINS	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
		Selector Switch Knobs	1.75	1.31	1.44	2.25	2.00	0.8
		Standard Push Button	1.62	1.31	1.44	2.25	1.94	1.0
	12314	1.375 in. Dia. Mushroom	1.62	1.31	1.44	2.25	1.94	1.0
Legend Plate	KN4	2.25 in. Dia. Mushroom	2.25	1.31	1.44	2.25	2.25	1.1
Position #2		Selector Switch Knobs	1.62	1.31	1.44	2.25	1.94	1.0
		Standard Push Button	2.25	1.31	1.62	2.38	2.38	3.0
	ICNIC	1.375 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	3.0
	KN6	2.25 in. Dia. Mushroom	2.25	1.31	1.62	2.38	2.38	1.1
		Selector Switch Knobs	2.25	1.31	1.62	2.38	2.38	3.0



Table 19.290: Special Legend Plates

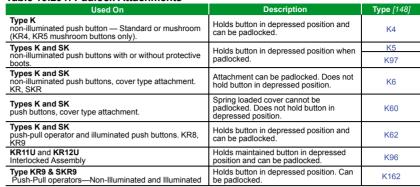
	Type KN500 (For Use with Dual Function Operators: KR6, KR7 and KR67		
	Standard Markings		
Туре	Green	Red	
KN500	Blank	Blank	
KN501	Start	Stop	
KN502	On	Off	
Туре	Black	Black	
KN520	Blank	Blank	
KN521	Start	Stop	
KN522	On	Off	
KN523	Forward	Reverse	
KN524	Up	Down	
KN525	High	Low	
KN526	Open	Close	

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Padlock Attachments for Type K and SK Operators

Table 19.291: Padlock Attachments



Used On	Description	Type [148]
Types K and SK selector switches and potentiometers (will not work with gloved-hand knob).	Cover type attachment that can be padlocked to keep unauthorized personnel from tampering with the operator.	К7
Types K and SK selector switches and potentiometers (will not work with gloved-hand knob).	Same as 9001K7 but with spring loaded lockout cover.	K107
Types K and SK illuminated push buttons (with or without guard) and key operated push buttons.	Cover type attachment that can be padlocked to keep unauthorized personnel from tampering with the operator.	K108
Types K and SK illuminated push buttons (with or without guard) and key operated push buttons.	Same as 9001K108 but with spring loaded lockout cover.	K109
Types K and SK maintained push-pull operators using 1.375 in. dia. mushroom buttons (-20 series, see Additional Accessories for Type K and SK Operators, page 19-105).	Cover type attachment that holds mushroom button in depressed position and can be padlocked.	K110







K7



K107



K108



K109



K110



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Mushroom Button Guards for Type K and SK Operators Table 19.293: Mushroom Button Guards







Description	Used On	Type [149] [150] [151]
Aluminum Mushroom Guard for 1.375 in. Mushroom Button Operator (KR4, KR24)	KR4, KR24	K48
Yellow Plastic Extended Mushroom	KR4, SKR4	K56∎
Guard for 1.375 in. and 1.625 in. Mushroom Button Operators	KR8, KR9, SKR8, SKR9	K56♦M ▲
Aluminum Mushroom Guard for 2.25	KR5	K68
in. Mushroom Button Operator	KR25	K685

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Potective Boots for Type K and SK Operators

Table 19.294: Protective Boots





KU37

(1127

For Non-Illu Push Butto		Clear Color for	Type [153]	
Color	Type [153]			
Black	KU1	Standard knob selector switch	KU17	
Red	KU2			
Blue	KU3	Gloved-hand cap for use on standard knob selector switch	KU18	
Brown	KU4			
Green	KU5			
Yellow	KU6	Standard pilot light and maintained contact push buttons	KU27	
Clear	KU7			
Clear	KU8	Push-to-test and illuminated push button without guard	KU37	
(Provides Fu	II Guard)	Illuminated push button with guard	KU47	

NOTE: These Type KU protective boots are recommended for very dirty environments or severe hose down, but they are not required for UL Type 4 rating on the Type K operators. The K1 wrench (see Wrenches for Type K and SK Operators, page 19-107) is required for installation of these boots.

Closing Plates for Type K and SK Operators

Table 19.295: Closing Plates

	Description	Туре
	Gray	K51 [154]
	Black	K52 <i>[154]</i>
Round (1-1/2 in. Dia.)		

For Dimensions, see catalog 9001CT0001



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Additional Accessories for Type K and SK Operators

Table 19.297: Accessories (Continued)

Table 19.296: Accessories

Description	Color	Type [155]	Package Qty.
	Black Blue Gray Green Orange Red	T8BK T8BE T8GY T8GN T8OE T8RD	10
Color inserts for KR1, KR2, KR3, SKR1, SKR2,	Universal [156]	T8U	7
SKR3, KR11, KR12, SKR11, SKR12, KRD, T,	White	T8WH	10
1.375 in. Snap-in Mushroom knob for KR4 and SKR4 [157]	Yellow Black Blue Green Orange Red Red [158] Yellow	T8YW K16B K16L K16G K16S K16R K16R05 K16RO5	1
2-1/4 in. Snap-in Mushroom knob for KR5 and SKR5 <i>[159]</i>	Black Blue Green Orange Red Red [158] Yellow	K17B K17L K17G K17S K17R K17R K17R05	1
1-3/8 in. Screw-on Mushroom knob for KR24 and SKR24[160]	Black Blue Green Orange Red Yellow	K92B K92L K92G K92S K92R K92Y	1
2-1/4 in. Screw-on Mushroom knob for KR25 and SKR25 [161]	Black Blue Green Orange Red Yellow	K93B K93L K93G K93S K93R K93Y	1
Push-Pull Knobs for KR8, KR9, SKR8, SKR9 Operators	Amber Black [162] Blue Clear Green Orange [162] Red Red [163] White Yellow	A22 B23 L22 C22 G22 S23 R22 R2205	1
	Black	B19	
Color Inserts for Dual Function Operators KR6, KR7, KR67	Green Red Universal [164]	G19 R19 U19	10
Standard Color Caps for Illuminated Push Buttons K1L, K2L, K3L, SK1L, SK2L	Amber Blue Clear Green Red White Yellow	A7 L7 C7 G7 R7 W7 Y7	1
Knob for KR9R94	Red	R94	1
Metal Knob for KR24	Red Green Black	K92RM K92GM K92BM	1
Metal Knob for KR25	Red Green Black	K93RM K93GM K93BM	1
Metal Knob for KR9 (40 mm)	Red Green Black	K94RM K94GM K94BM	1
Metal Knob for KR9 (60 mm)	Red Green Black	K95RM K95GM K95BM	1

Table 19:237: Accessories (Conti	naea)		
Description	Color	Type [155]	Package Qty.
1-3/8 in. Mushroom Knob for Illuminated Push Buttons K2L, SK2L <i>[165]</i>	Amber Blue Clear Green Red White Yellow	A20 L20 C20 G20 R20 W20 Y2	1
2-1/4 in. Mushroom Knob for Illuminated Push Buttons K2L, SK2L [165]	Amber Blue Clear Green Red White Yellow	A21 L21 C21 G21 R21 W21 Y21	1
Plastic Fresnel Pilot Light Lens for KP, KT, SKP, SKT	Amber Blue Clear Green Red White Yellow	A31 L31 C31 G31 R31 W31 Y31	1
Domed Plastic Pilot Light Lens for KP, KT, SKP, SKT	Amber Blue Clear Green Red White Yellow	A9 L9 C9 G9 R9 W9 Y9	1
Glass Pilot Light Lens for KP, KT	Amber Blue Clear Green Red White Yellow	A6 L6 C6 G6 R6 W6 Y6	1
Standard Selector Switch Knob for K and SK Selector Switches	Amber Black [162] Blue Clear Green Orange [162] Red White Yellow	A8 B11 L8 C8 G8 S11 R8 W8 Y8	1
Gloved-Hand Selector Switch Knob for K and SK Selector Switches	Amber Black [162] Blue Clear Green Orange [162] Red White Yellow	A24 B25 L24 C24 G24 S25 R24 W24 Y24	1
Color Inserts for KQ and TQ Selector Push Buttons	Black Blue Green Orange Red White Yellow	T5BK T5BE T5GN T5OE T5RD T5WH T5YW	10
Description	Cam	Туре	
Selector Switch Cams	BCDEFGHJLA	K1 K1 K1 K1 K1 K1 K1	3C 3D 3E 3F 3G 3H 3J

^[155] When ordering, add prefix 9001 to the catalog number.

^[156] Includes one each of the following color inserts: Black, Red, Green, Yellow, Orange, Blue, and White.

^[157] The mushroom button cap listed here may be assembled to a 9001KR1U or SKR1U to form a 9001KR4 or SKR4.

[&]quot;EMERGENCY STOP" is in raised letters and hot stamped white across the front of the mushroom button.

^[159] The mushroom button cap listed here may be assembled to a 9001KR1U or SKR1U to form a 9001KR5 or SKR5.

^[160] The mushroom button cap listed here may be assembled to a 9001KR20 to form a 9001KR24 or SKR20 to form a 9001SKR24. [161] The mushroom button cap listed here may be assembled to a 9001KR20 to form a 9001KR25 or a SKR20 to form a 9001SKR25.

^[162] These color caps are opaque and are for use on non-illuminated operators only.[163] Red knob with "Push Emergency Stop" marked on top of knob.

Includes two of each of the following color inserts: Black, Red, and Green.

^[165] May be used on KR8 and KR9 operators. Order mushroom button and K54 adapter. Using the K54 adapter voids Type 6 rating.

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Ring Nuts for Type K and SK Operators

Table 19.298: Ring Nuts

Used On	Type [166]	Used On	Type [166]
K1L	K44	SK1L	SK44
K30-K37	K45	_	_
K70-K73	K45	_	-
K20, K21, K22, K23	K45	SK20, SK21, SK22, SK23	SK45
K20, K21, K22, K23 [167]	SK46	SK20, SK21, SK22, SK23 [167]	SK46
K2L	K49	SK2L	SK49
K3L (complete)	K111	_	_
K3L (metal top only)	6515802701	_	_
KP, KTR	K41	SKP, SKTR	SK41
KR1	K41	SKR1	SK41
KR11	K42	SKR11	SK42
KR12 [168]	K42	SKR12 [168]	SK42
KR12 [169]	K41	SKR12 [169]	SK41
KR13, 14, 15	K55	_	_
KR2	K42	SKR2	SK42
KR20	K49	_	
KR24	K49		ı
KR25	K49	SKR25	SK49
KR3	K40	SKR3	SK40
KR4	K41	SKR4	SK41
KR5	K41	SKR5	SK41
KR6	K47	_	
KR67	K47	_	_
KR7	K47	_	_
KR8	K58	SKR8	6509704401
KR9	K41	SKR9	SK41
(S	K45	SKS	SK45
KS [167]	SK46	SKS [167] SKRU11 SKRU1,2,3,4,5,10	SK46 SK41 SK40
KT	K49	SKT	SK49

Table 19.299: Replacement Lamps For Series A–F (black) Light Modules

Light Module Type	Lamp Number (ANSI)	Square D Replacement Lamps
would type	(ANSI)	Part Number
KM1	GE44[170]	_
KM2	GE1490	2550101003
KM3	GE44[170]	_
KM4	GE1490	2550101003
KM5	GE44[170]	_
KM6	GE44[170]	_
KM7	GE44[170]	_
KM8	GE44[170]	_
KM9	GE755	2550101020
KM11	CMDK1A5	2550105014
KM12	CMDK1A5	2550105014
KM13	CMDK1A5	2550105014
KM14	CMDK1A5	2550105014
KM15	CMDK1A5	2550105014
KM21	SYL12PSB	2550105003
KM22	SYL12PSB	2550105003
KM23	SYL28PSB	2550105008
KM25	SYL120PSB	2550105005
KM31	SYL6PSB	2550105007
KM32	SYL12PSB	2550105003
KM34	SYL24PSB	2550105004
KM35	SYL28PSB	2550105008
KM36	SYL48PSB	2550105009
KM37	SYL60PSB	2550105010
KM38	SYL120PSB	2550105005

Replacement and Repair Parts for Type K and SK Operators

Table 19.300: Repair Parts

Description	Part Number
E10 Key	2941101100
Gray cap for KR11, KR12, SKR11, or SKR12	3105217001
Clear plastic top (only) for 9001K44 & SK44 Ring Nut)	4487D63XI
Gasket for Type K and SK Push-Pull Knob	6509701801
Gasket for Plastic Illuminated Lens	6509701901
Gasket for Type K and SK selector switch knob	3105406401
Black Compensating Gasket (Type K and SK Operators)	6509702001
Liner for Non-Illuminated Operators	6509704901
Locking Thrust Washer	6512231201
Nylon Spacer	6509705001
Locking Thrust Washer (Std. Type SK Operator)	6512240601
Push-Pull Mushroom Adapter [171]	K54
Rubber Boot for Joystick	6512243201
Knob on Joysticks without latch	4458D20X3
Knob for SK Potentiometer	3105404408
Fingersafe™ Cover for 9001KM	6508804101

Table 19.301: KU Replacement Ring Nuts (Threaded Inside and Out)

Used On	Part Number
KU1 through KU8, KU27, KU37, KU47	3105204101
KU17, KU18	3105205901

^[166] When ordering, add prefix 9001 to the catalog number.

^[167] Secondary ring nut (holds knob on selector switch or potentiometer).

^[168] Maintained button of two button operator.

^[169] Momentary button of two button operator.

^[170] GE44 and GE755 are interchangeable (GE755 gives longer life). If a GE44 lamp is ordered, a GE755 (2550101020) will be substituted. For a replacement lamp in a current series light module, seeStandard and Shallow Depth Light Modules, page 19-96.



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Interlock for Type K and SK Operators

For mechanically interlocking two push buttons so that only one button can be depressed at a time. A Type K3 attachment is furnished with the **9001 KR11, KR12, SKR11, SKR12, SKRU1** and **SKRU11** operators. However, these are maintained operators and the **K3** interlock serves to release one of the buttons when the other is depressed. When used with momentary contact buttons, the **K3** interlock **does not** hold the buttons in the depressed position. It simply prevents pushing both buttons at the same time.

Table 19.302: Interlock

Description	Туре
The Type K3 interlock is mounted behind the operators. Operators not included.	K3
NOTE: When ordering, add prefix 9001 to the catalog number.	

Screwdriver for Type K and SK Operators

Table 19.303: Screwdriver

Description	Type
Used to tighten mounting screws on contact blocks and light modules.	K69
NOTE: When ordering, add prefix 9001 to the catalog number.	

Wrenches for Type K and SK Operators

Table 19.304: Wrenches

Where Used	Type
For tightening ring nuts on 22 and 30 mm control units	K95
For tightening threaded protective caps	K1

NOTE: When ordering, add prefix 9001 to the catalog number.

KX Square Multifunction Operators

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KX Square Push Buttons with Contacts

Table 19.305: Push Buttons—Single, with Contacts

Description	Button Color	Legend Marking	Contacts	Voltage	Type [1]
	Green	Start	1 N.O.	_	KXRA133
	Red	Stop	1 N.C.	_	KXRA134
Non-Illuminated	Amber	blank	2 N.O., 2 N.C.	_	KXRAAH2
	Green	blank	2 N.O., 2 N.C.	_	KXRAGH2
	Blue	blank	2 N.O., 2 N.C.	_	KXRALH2
	Amber	blank	1 N.O., 1 N.C.	24	KXRB34AH1
	Green	blank	1 N.O., 1 N.C.	24	KXRB34GH1
Illuminated	Red	blank	1 N.O., 1 N.C.	24	KXRB34RH1
	Amber	blank	1 N.O., 1 N.C.	110/120	KXRB1AH1
	Green	blank	1 N.O., 1 N.C.	110/120	KXRB1GH1
	Red	blank	1 N.O., 1 N.C.	110/120	KXRB1RH1

Table 19.306: Push Buttons—Dual, with Contacts

Description	Top Button (#1)	Lower Button (#2)	Contacts	Type [1]
Momentary	Start (Green)	Stop (Red)	2 N.O., 2 N.C.	KXRC111
Momentary	Start (Green)	Stop (Red)	1 N/O, 1 N/C	KXRC136
Momentary	Up (Green)	Down (Green)	2 N.O.	KXRD140
Momentary	blank (Blue)	blank (Blue)	2 N.O.	KXRDLLH7
Maintained[2]	Start (Green)	Stop (Red)	1 N.O., 1 N.C.	KXRE115
Maintained [2]	On (Blue) [3]	Off (Blue) [3]	3 N.O., 3 N.C.	KXRELLH3
Maintained [2]	On (Blue) [3]	Off (Blue) [3]	3 N.O., 3 N.C.	KXRELLH3
Maintained [2]	On (Blue) [3]	Off (Blue) [3]	2 N.O., 2 N.C.	KXRELLH2

Table 19.307: Push Buttons—Dual with One Pilot Light and Contacts

Description	Top Button (#1)	Middle Lens (#2)	Lower Button (#3)	Contacts	Voltage	Type [1]
Momentary	Start (Green)	On (Red)	Stop (Red)	2 N.O., 2 N.C.	110/120	KXRG117
Momentary	Start (Green)	On (Red)	Stop (Red)	1 N.O., 1 N.C.	110/120	KXRG137
Maintained [2]	Start (Green)	On (Red)	Stop (Red)	1 N.O., 1 N.C	110/120	KXRJ119

Table 19.308: Push Buttons—Dual with Two Pilot Lights and Contacts

Description	Top Button (#1)	Left Lens (#2)	Right Lens (#3)	Lower Button (#4)	Contacts	Voltage	Type [1]
Momentary	Start (Green)	On (Red)	Off (Green)	Stop (Red)	2 N.C., 2 N.C	110/120	KXRL121
Momentary	Start (Green)	On (Red)	Off (Green)	Stop (Red)	1 N.O., 1 N.C.	110/120	KXRL138
Momentary	Start (Green)	On (Red)	Off (Green)	Stop (Red)	2 N.C., 2 N.C	24	KXRL34GRGRH2
Momentary	Start (Green)	On (Red)	Off (Green)	Stop (Red)	1 N.O., 1 N.C.	24	KXRL34GRGRH37

KX Square Selector Switches with Contacts

Table 19.309: Selector Switches—with Contacts

Description	Legend	Knob		Contacts		ts	Type [1]
2-position, maintained	Off-On	n Black		1	0		KXSA125
2-position, maintained Oπ-	OII-OII	DIACK	()	1		KASA 125
2-position, maintained	Off-On	Black	1	1	0		KXSA139
3-position, maintained	Hand-Off-Auto	Black	1	1	0	0	KXSD126
3-position, maintained	Hand-Oll-Auto	Black	()	0	1	KASD120

KX Square Potentiometers

Table 19 310: Potentiometers

Table 19.510. Potentionieters						
Description	Power	Resistance	Type [1]			
Single	2 W	3.2 kW	KXBB06			
Single	2 W	5 kW	KXBB07			
Single	2 W	10 kW	KXBB08			
Tandem	2 W	5 kW / 5 kW	KXBD83			







Pilot Light at 110–120 V, 50–60 Hz



Pilot Light at 110–120 V, 50–60 Hz Transformer







KX Square Multifunction Operators

Class 9001 / Refer to Catalog 9001CT1103

110–120 V, 50–60 Hz Transformer



110–120 V, 50–60 Hz Transformer 110–120 V, 50–60 Hz Transformer



110-120 V, 50-60 Hz. Transformer

KX Square Pilot Lights

Table 19.311: Pilot Lights[4]

Description	Voltage	Lens 1	Lens 2	Lens 3	Lens 4	Type [5]
Single	24	Amber				KXPA35A
Single	24	Red				KXPA35R
Single	24	Green				KXPA35G
Single	24	White				KXPA35W
Single	110/120	Amber				KXPA1A
Single	110/120	Red				KXPA1R
Single	110/120	Green				KXPA1G
Single	110/120	White				KXPA1W
Dual	24	Amber	Amber			KXPB34AA
Dual	24	Red	Red			KXPB34RR
Dual	24	Green	Green			KXPB34GG
Dual	24	White	White			KXPB34WW
Dual	24	Red	Green			KXPB34RG
Dual	110/120	Amber	Amber			KXPB1AA
Dual	110/120	Red	Red			KXPB1RR
Dual	110/120	Green	Green			KXPB1GG
Dual	110/120	White	White			KXPB1WW
Dual	110/120	Red	Green			KXPB1RG
Quad	24	White	Amber	Green	Red	KXPC34WAGR
Quad	110/120	White	Amber	Green	Red	KXPC1WAGR
Quad	110/120	White	Blue	Green	Red	KXPC1WLGR

KX Square Push Buttons without Contacts

Table 19.312: Push Buttons—without Contacts [6]

Push Button		Action	Lens Color (1)	Lens Color (2)	Type [5]
Single Push Button		·			
			Amber	_	KXRAA
			Green	_	KXRAG
	Non-Illuminated	Momentary	Blue	_	KXRAL
			Red	_	KXRAR
			White	_	KXRAW
			Amber	_	KXRB35A
			Green	_	KXRB35G
START	Illuminated 24 V	Momentary	Blue	_	KXRB35L
			Red	_	KXRB35R
			White	_	KXRB35W
	Illuminated 110/120 V		Amber	_	KXRB38A
			Green	_	KXRB38G
		Momentary	Blue	_	KXRB38L
			Red	_	KXRB38R
			White	<u> </u>	KXRB38W
al Push Button		<u> </u>			
		Momentary +	Green	Red	KXRCGR
		Interlock	White	White	KXRCWW
IP A		criock	Green	Green	KXRCGG
	Non-Illuminated		Green	Red	KXREGR
DOWN		Maintained + Interlock	White	White	KXREWW
		interiock	Green	Green	KXREGG

Table 19.313: Dual Push Button with Pilot Light—without Contacts (6)

	Action	Voltage	Lens Color (1)	Lens Color (2)	Lens Color (3)	Lens Color (4)	Type [5]
ith One Pilot Lig	ht						
		24 Vac/dc	Red	White	Green	 -	KXRG35RWG
	Momentary	24 Vac/dc	Green	White	Green	_	KXRG35GWG
	iviornemary	110/120 Vac/dc	Red	White	Green	_	KXRG38RWG
4		110/120 Vac/dc	Green	White	Green	_	KXRG38GWG
1911		24 Vac/dc	Red	White	Green	_	KXRH35RWG
	Momentary +	24 Vac/dc	Green	White	Green	_	KXRH354GWG
1	Interlock	110/120 Vac/dc	Red	White	Green	_	KXRH38RWG
2		110/120 Vac/dc	Green	White	Green	_	KXRH38GWG
3		24 Vac/dc	Red	White	Green	_	KXRJ35RWG
	Maintained +	24 Vac/dc	Green	White	Green	_	KXRJ35GWG
	Interlock	110/120 Vac/dc	Red	White	Green	_	KXRJ38RWG
		110/120 Vac/dc	Green	White	Green	_	KXRJ38GWG
ith Two Pilot Lig	hts				•		
		24 Vac/dc	Red	White	White	Green	KXRL35RWWG
400	Mamantani	24 Vac/dc	Red	Red	Green	Green	KXRL35GGRR
	Momentary	110/120 Vac/dc	Red	White	White	Green	KXRL38RWWG
1		110/120 Vac/dc	Red	Red	Green	Green	KXRL38GGRR
2		24 Vac/dc	Red	White	White	Green	KXRM35RWWG
3	Momentary +	24 Vac/dc	Red	Red	Green	Green	KXRM35RRGG
4	Interlock	110/120 Vac/dc	Red	White	White	Green	KXRM38RWWG
		110/120 Vac/dc	Red	Red	Green	Green	KXRM38RRGG

Also see KX Accessories, page 19-111.

Lenses are blank (no markings)
When ordering, add prefix 9001 to the catalog number. [5]

Order contact blocks separately (See Table 19.315 Contact Blocks, page 19-110.)





Table 19.314: Selectors—without Contacts [7] Type [8] **Knob Color** KXSAEB Non-Illuminated Black Illuminated 24 Vac/dc Red KXSJE35R Illuminated 24 Vac/dc Green KXSJE35G Illuminated 24 Vac/dc White KXSJE35W Illuminated 120 Vac/do KXSJE38R Red 2-Position, Maintained 120 Vac/dc KXSJE38G Illuminated Green Illuminated 120 Vac/do White Key (Withdraw L) N/A KXSRE1 Key (Withdraw R) N/A KXSRE2 Key (Withdraw Both) N/A KXSRE3 Non-Illuminated Black **KXSDCB** 3-Position, Maintained Key (Withdraw C) KXSVC5 N/A Key (Withdraw All) N/A KXSVC10 4-Position, Maintained Non-Illuminated Black KXSHHB

Contact Blocks

Table 19 315: Contact Blocks—Purchase Senarately

Table 19.315: Contact Blocks—Pu		
	Description	Type [8]
(Clear Cover)	1 N.O., 1 N.C.	KA1
(Green Cover)	1 N.O.	KA2
(Red Cover)	1 N.C.	KA3
(Clear Cover)	1 N.C., 1 N.O. (Early Make)	KA4
(Red Cover)	1 N.C. (Late Break)	KA5
(Green Cover)	1 N.O. (Early Make)	KA6

KX Accessories Class 9001 / Refer to Catalog 9001CT1103

Table 19 316: Legand Plates for Selector Switches

	Used C	On [9]	
Marking	KXSA, KXSB, KXSC, KXSD, KXSE, KXSF, KXSG, KXSH, KXSJ, KXSK, KXSL, KXSM, KXSN, KXSO, KXSP, KXSQ	KXSR, KXSS, KXST, KXSV, KXSW, KXSX, KXSY, KXSZ	
	1.33 34 Square 0.76 19 KXN-600	1.33 34 Square 0.76 19 1 KXN-700	
Blank ForRev. Hand-Auto Man-Auto Off-On On-Off Open-Close Start-Stop Auto-Off-Hand Hand-Off-Auto Man-Off-Auto	KXN600 KXN639 KXN640 KXN643 KXN644 KXN645 KXN646 KXN651 KXN658 KXN658 KXN660 KXN662	KXN700 KXN730 KXN740 KXN743 KXN744 KXN745 KXN746 KXN751 KXN758 KXN760 KXN760	
Special Marking	KXN699	KXN799	

Table 19.318: Letter Height For Standard Legends

_		•
	in.	mm
KXN100	1/4	6
KXN200	3⁄16	4.75
KXN300	3⁄16	4.75
KXN400	3⁄16	4.75
KXN500	3⁄16	4.75
KXN600	1⁄8	3
KXN700	1⁄8	3

Table 19.320: Maximum Number of Lines and Characters for Type KXN699 and KXN799 Legend **Plates**

Position		tter ight	Characters Per Marking Area		
	in.	mm	A and C	В	
В	3/16	4.75	6	6	
	1/8	3	8	9	
	3/16	4.75	10	5	
	1⁄8	3	13	7	

KXN100	KXN200 (Pos. 1)	KXN400 (Pos. 1) KXN300 (Pos. 2)	KXN400 (Pos. 1) KXN- 500 (Pos. 2) (Pos. 3)	(Pos. 1) 0 5 X X 0 5 X X X (Pos. 2)
(Pos. 1)	(Pos. 2)	(Pos. 3)	(Pos. 4)	0 0 0
KXRA, KXRB KXRN, KXRP	KXRC, KXRD KXRE, KXRF	KXRG, KXRH KXRJ, KXRK	KXRL, KXRM KXTC	KXPB, KXTD

Type KX Legend Plates

Table 19.317: Legend Plates for Push Buttons or Pilot Lights

Table 19.517.				l On [9]	_	
	Α	В	С	D	Е	F
Marking	KXRA, KXRB KXRN, KXRP KXPA, KXPG KXTA, KXTB KXTE	KXRC, KXRD KXRE, KXRF	KXPB KXTD [10]	KXRG, KXRH KXRJ, KXRK [11]	KXRG, KXRH KXRJ, KXRK KXRL, KXRM KXTC [12]	KXRL, KXRM KXTC [11]
	1.23 31 Square	\frac{1.3}{3}	23 1 1 0.566 14	1.23 31 0.48 12	1.28 31 1 0.26 7	0.56 14 0.43 11
	Α	C (ve		D	E	F
Blank Start Stop On Off Emerg. Stop Forward Reverse Close Open Open Up Jog Reset Run Cycle Start Motor Run Power On	KXN100 KXN101 KXN102 KXN103 KXN103 KXN106 KXN106 KXN107 KXN108 KXN108 KXN110 KXN111 KXN111 KXN111 KXN111 KXN112 KXN123 KXN124 KXN136 KXN136 KXN136 KXN136	KXN200 KXN201 KXN202 KXN203 KXN203 KXN204 KXN205 KXN207 KXN208 KXN207 KXN211 KXN211 KXN211 KXN213 KXN223 KXN223 KXN224 KXN236 KXN236 KXN238	KXN200 KXN201V KXN202V KXN202V KXN204V KXN206V KXN207V KXN207V KXN210V KXN211V KXN211V KXN211V KXN2218V KXN223V KXN224V KXN232V KXN236V KXN238V	KXN300 KXN3001 KXN3002 KXN3002 KXN3003 KXN3006 KXN3007 KXN3007 KXN3009 KXN310 KXN311 KXN311 KXN3118 KXN323 KXN3223 KXN3224 KXN3326 KXN336 KXN338	KXN400 KXN401 KXN402 KXN403 KXN404 KXN405 KXN407 KXN408 KXN407 KXN411 KXN411 KXN411 KXN418 KXN423 KXN423 KXN423 KXN436 KXN436 KXN438	KXN500 KXN501 KXN501 KXN502 KXN503 KXN506 KXN506 KXN507 KXN508 KXN509 KXN510 KXN511 KXN518 KXN523 KXN524 KXN532 KXN532 KXN532 KXN538
Special- Marking	KXN199	KXN299	KXN299V	KXN399	KXN499	KXN599

Table 19.319: Maximum Number of Lines and Characters For Type KXN Legend Inserts

	tter ight	Number of	KXN199	KXN299 Horizontal	KXN299 Vertical	KXN399	KXN499	KXN599
in.	mm	01		Honzontai	Vertical			
		Characters per Line	7	7	3	7	7	3
1/4	1/4 6	Lines per Legend Insert	4	2	4	1	1	1
		Characters per Line	9	9	4	9	9	4
3/16	3/16 4.75	Lines per Legend Insert	5	2	6	2	1	2
		Characters per Line	14	14	5	14	14	6
1/8	3	Lines per Legend Insert	8	4	9	3	2	3

All Type KX push buttons and pilot lights have a blank insert as standard. These blank inserts can be custom marked using a marking pen, a mechanical lettering set, press letters, or a tape lettering machine that marks a tape which can then be transferred to the

To have legend inserts installed into the operators, order the operator as normal and then indicate where to install the legend inserts using the numbered positions shown on the operator ordered.

9001KXRL1GRGRH2 with a 9001KXN 401 in position 1 9001KXN 503 in position 2 9001KXN 504 in position 3 9001KXN 402 in position 4 Example:

When ordering, add prefix 9001 to the catalog number.

^[10] These legend inserts have vertical printing.

^[11] These legend inserts are for the pilot lights in the center of the operator.

These legend inserts are for the push button portion of the operator.



Table 19.322: Boots

Description	For Use On	Type
	All KX** push buttons and pilot lights	KXAKU7
	All KX** selector switches and potentiometers	KXAKU17B

Table 19.323: Shrouds

Description		For Use On	Color	Type
	All push		Red	KXAK41R
U	Full Shroud	buttons and pilot lights	Black	KXAK41B
	Short	Any KX	Red	KXAK40R
	Shroud	operator	Black	KXAK40B

Table 19.324: Lamp and Lens Removal Kit

Description	Type
Used to remove lamp and lens on all illuminated operators and pilot lights.	KXALLRT

Additional Accessories for Type KX Operators

Table 19.325: Button Covers

Description	For Use On	Color	Type	Codo
Includes 2-KXN200	KXPB KXTD	Red Green Amber Blue White	Type KXAC28 [13] KXAC28 [13] KXAC28 [13] KXAC28 [13] KXAC28 [13]	Code R [14] G [14] A [14] L [14] W [14]
Includes KXN400	KXTC (Position 1 & 4)	Red Green Amber Blue White	KXAR4 KXAG4 KXAA4 KXAL4 KXAW4	R G A L
Includes KXN500	KXTC (Position 2 & 3)	Red Green Amber Blue White	KXAR5 KXAG5 KXAA5 KXAL5 KXAW5	R G A L W
Includes 1-KXN100	KXPC	Red Green Amber Blue White	KXAC48 [15] KXAC48 [15] KXAC48 [15] KXAC48 [15] KXAC48 [15]	R [16] G [16] A [16] L [16] W [16]
Includes KXN100	KXRA KXRB	Red Green Amber Blue White	KXAR1 KXAG1 KXAA1 KXAL1 KXAW1	R G A L W
Includes KXN100	KXRN KXRP	Red Green Amber Blue White	KXARM1 KXAGM1 KXAAM1 KXALM1 KXAWM1	R G A L W
Includes KXN200 [17]	KXRC KXRD KXRE KXRF	Red Green Amber Blue White	KXAR2 KXAG2 KXAA2 KXAL2 KXAW2	R G A L W
Includes KXN300	KXRG (Position 2) KXRH (Position 2) KXRJ (Position 2) KXRK (Position 2)	Red Green Amber Blue White	KXAR3 KXAG3 KXAA3 KXAL3 KXAW3	R G A L W
Includes KXN400	KXRG (Position 1 & 3) KXRH (Position 1 & 3) KXRJ (Position 1 & 3) KXRK (Position 1 & 3) KXRL (Position 1 & 4) KXRM (Position 1 & 4)	Red Green Amber Blue White	KXAR4 KXAG4 KXAA4 KXAL4 KXAW4	R G A L W
Includes KXN500	KXRL (Position 2 & 3) KXRM (Position 2 & 3)	Red Green Amber Blue White	KXAR5 KXAG5 KXAA5 KXAL5 KXAW5	R G A L W
Includes KXN100	KXPA	Red Green Amber Blue White	KXAR8 KXAG8 KXAA8 KXAL8 KXAW8	R G A L W
Includes KXN100	KXTA KXTB	Red Green Amber Blue White	KXAR1 KXAG1 KXAA1 KXAL1 KXAW1	R G A L W

Each KXAC28 includes a clear cover and 1 each of all colors. If the same color is required for position #1and #2 of the KXPB operator, order 2 of Type KXAC28.

^[13] [14]

When specifying color codes—the first will be installed in #1 and the second in #2.

Each KXAC48 includes a clear cover and 1 each of all colors. If the same color is required for position #1and #2 of the KXPC operator, order 2 of Type KXAC48. [15]

When specifying color codes—the first will be installed in #1, the second in #2, the third in #3 and the fourth in #4.

^[17] Two required per operator. When ordering an assembled operator—specify two code numbers. The first code will be assembled into #1 and the second code will be assembled into #2 19-112





XAL 22 mm Control Stations

Refer to Catalog 9001CT1104

XALD101H29H7



XALK174H7



XALD211H29H7



XALD321H29H7

XAL Control Stations, Enclosures, and Accessories

Table 19.326: Start or Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

Description	Type of Push	Type of Contact		Marking	Catalog Number	
Description	Type of Fusii	N.O. N.C.		Walking	Catalog Nulliber	
Marking on Legend Holder						
1 managatan, nuch huttan	Flush black	1	_	Start	XALD101H29H7	
1 momentary push button	Flush red	_	1	Stop	XALD111H29H7	
Marking on Legend Holde	er		•			
1 mushroom head push button Ø 40 mm, momentary	Red	_	1	Stop on red legend	XALD164H29H7	

Table 19.327: Trigger Action Emergency Stop Polycarbonate; Light gray base, RAL7035; Yellow lid, RAL1012

Description	Type	Type of	Contact	Catalog Number	
Description	туре	N.O.	N.C.	Catalog Number	
1 mushroom head push button Ø 40 mm, red Turn-to-release	Trigger action [1]	١	1	XALK178H7	
1 mushroom head push button Ø 40 mm, red Key release (Key No. 455)	Trigger action [1]	_	1	XALK188H7	
1 mushroom head push button Ø 40 mm, red Push-pull	Trigger action [2]		1	XALK198H7	

Table 19.328: Start-Stop Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

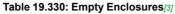
Description	Type of Push	Type of	Contact	Text	Catalog
Description	Type of Fusit	N.O.	N.C.	Text	Number
2 momentary	1 flush black 1 flush red	1_	-	Start Stop	XALD211H29H7
push buttons	1 flush black 1 flush black	1 1		Forward Reverse	XALD251H29H7

Table 19.329: Three Function Polycarbonate; Light gray base, RAL7035; Dark gray lid, RAL7016

Description Type of Push		Type of	Contact	Text	Catalog
Description	Description Type of Fusin	N.O.	N.C.	Text	Number
		1 1	1	Open Stop Close	XALD351H29H7
3 momentary push buttons (no markings)	1 flush black 1 flush red 1 flush black	1 1	1	Forward Stop Reverse	XALD311H29H7
		1 1	1	Up Stop Down	XALD321H29H7



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Description	Number of Holes	Catalog Number
For normal environments, CSA approve	ed and UL Listed (with stainless steel lid i	mounting screws)
Light gray base RAL7035 Dark gray lid RAL7016	1 2 3 4 5	XALD01H7 XALD02H7 XALD03H7 XALD04H7 XALD05H7
Light gray base RAL7035 Yellow lid RAL1012	1	XALK01H7

Table 19.331: Electrical Block and Accessories (for mounting on metal plate at back of enclosure) [3]

Description	Type	Color	Catalog Number
Electrical blocks with screw	clamp terminal connec	tions	
Metal-plate-mounting	N.O. contact	_	ZENL1111
contact blocks	N.C. contact	_	ZENL1121
Light blocks with	24 Vac/Vdc	White Green Red Yellow Blue	ZALVB1 ZALVB3 ZALVB4 ZALVB5 ZALVB6
Protected LED	120 Vac	White Green Red Yellow Blue	ZALVG1 ZALVG3 ZALVG4 ZALVG5 ZALVG6
	230 Vac	White Green Red Yellow Blue	ZALVM1 ZALVM3 ZALVM4 ZALVM5 ZALVM6

Table 19.332: Accessories for electrical blocks

Description	Application	Catalog Number
Blanking plug	Ø 22 mm units	ZB5SZ3
Nut	Head mounting	ZB5AZ901
Grounding terminal	Grounding	XALZ09
Key	For tightening nut	ZB5AZ905

XAP Enclosures and Accessories

Table 19.333: Undrilled Enclosures, Glass-Reinforced Polyester

Type		H x W Dir	H x W Dimensions	
турс		IN	mm	Number
		3.34 x 5.75	85 x 146	XAPA1100
NEMA 4, 4X, 13	Without hinges	3.34 x 8.90	85 x 226	XAPA2100
Usable depth 3.27 in. (83 mm)		5.95 x 9.49	151 x 241	XAPA3100
	With hinges	5.95 x 9.49	151 x 241	XAPA4100
		For XAPA1100)	XAPZ100
Undrilled Grounding Plate	Sheet steel with ground screw	For XAPA210	0	XAPZ200
	Sciew	For XAPA310	0 and 4100	XAPZ300

Table 19.334: Drilled Insulated Enclosures, Glass-Reinforced Polyester [4]

	Number of	Number of Rows		H x W Dim	ensions	Catalog
Туре	Knockouts 22 mm	Vertical	Horizontal	IN	mm	Number
NEMA 4, 4X, 13	1	1	1	3.35 X 5.75	85 X 146	XAPA1110
Usable depth 3.27 in.	2	1	2	3.35 X 5.75	85 X 146	XAPA1120
(83 mm) 1.58 in. (40	4	2	2	3.35 X 5.75	85 X 146	XAPA1104
mm) centerline	8	2	4	3.35 X 8.90	85 X 226	XAPA2108
spacing of holes	16	4	4	5.94 X 9.49	151 X 241	XAPA3116
				For XAPA1110		XAPZ110
				For XAPA1120		XAPZ120
Drilled Grounding Plate		Sheet steel	with ground	For XAPA1104		XAPZ104
	3			For XAPA2108		XAPZ208
				For XAPA3116		XAPZ316

Table 19.335: Undrilled Die Cast Enclosures (Painted Grav RAL7032)

Type Material	Motorial	Usable Depth		HxWxDD	Catalog		
	Materiai	IN	mm	IN	mm	Number	
				3.15 x 3.15 x 2.03	80 x 80 x 51.5	XAPG19100	
		1.93	49	5.12 x 3.15 x 2.03	130 x 80 x 51.5	XAPG29100	
				6.89 x 3.15 x 2.03	175 x 80 x 51.5	XAPG39100	
NEMA 4. 13	Zinc		2.02 74.5	3.15 x 3.15 x 3.03	80 x 80 x 77	XAPG19400	
NEIVIA 4, 13		2.02		2.93 74.5	74 F 5.12 x 3.1	5.12 x 3.15 x 3.03	130 x 80 x 77
			2.93		6.89 x 3.15 x 3.03	175 x 80 x 77	XAPG39400
				8.66 x 3.15 x 3.03	220 x 80 x 77	XAPG49400	
	Aluminum	2.93	2.93	12.20 x 3.35 x 3.03	310 x 85 x 77	XAPG59400	











XAPA1100



XAPA1104



XAPG39400

For customer assembly using XB5 operators and standard screw-terminal contact blocks, see XB5 Non-Illuminated Operators, page 19-49. [3]

Either mounting method can be used: contact block ZENL mounting on metal plate, or contact block ZBE mounting on operator with mounting collar.

Uses standard XB5 products from XB5 Complete Devices, page 19-45 through XB5 Accessories, page 19-64. Do not use ZENL style contact blocks.



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XAP 22 mm Enclosures and Accessories

Refer to Catalog 9001CT1104

Table 19.336: Drilled Die Cast Enclosures (Painted Gray RAL7032) [5]

	Type		Usable Depth		Number of	H x W x D Dimensions		
	Туре	Material	IN	mm	22 mm holes	IN	mm	Catalog Number
					2	3.15 x 3.15 x 2.03	80 x 80 x 51.5	XAPG19702
	NEMA 4, 13		1.93	49	3	5.12 x 3.15 x 2.03	130 x 80 x 51.5	XAPG29703
•	1.18 in. (30 mm)	7in a			4	6.90 x 3.15 x 2.03	175 x 80 x 51.5	XAPG39704
	centerline spacing of holes	Zinc	2.93	74.5	2	3.15 x 3.15 x 3.03	80 x 80 x 77	XAPG19802
	for horizontal mount				3	5.12 x 3.15 x 3.03	130 x 80 x 77	XAPG29803
					4	6.90 x 3.15 x 3.03	175 x 80 x 77	XAPG39804
		Zinc	1.93	1.93	1	3.15 x 3.15 x 2.03	80 x 80 x 51.5	XAPG19201
					2	5.12 x 3.15 x 2.03	130 x 80 x 51.5	XAPG29202
	NEMA 4, 13				3	6.90 x 3.15 x 2.03	175 x 80 x 51.5	XAPG39203
	1.58 in. (40 mm)		2.93	74.5	1	3.15 x 3.15 x 3.03	80 x 80 x 77	XAPG19501
40 0	centerline spacing of holes				2	5.12 x 3.15 x 3.03	130 x 80 x 77	XAPG29502
XAPG29703	for vertical mount				3	6.90 x 3.15 x 3.03	175 x 80 x 77	XAPG39503
	10.10.10.10.10				4	8.66 x 3.15 x 3.03	220 x 80 x 77	XAPG49504
		Aluminum	2.93	74.5	5	12.20 x 3.35 x 3.03	310 x 85 x 77	XAPG59505





Table 19.337: Drilled Flush Plates [5]

Type	Material	Number of	HxWxD	Dimensions	Catalog
Type	Material	22 mm holes	IN	mm	Number
		1	2.83 x 2.83	72 x 72	XAPE301
NEMA 4, 13		2	4.13 x 2.83	105 x 72	XAPE302
1.18 in. (30 mm) centerline spacing	Anodized Aluminum	3	5.43 x 2.83	138 x 72	XAPE303
of holes	Aluminum	4	6.73 x 2.83	171 x 72	XAPE304
01110100		5	8.03 x 2.83	204 x 72	XAPE305

Table 19.338: Optional Back Box (for finger protection, if required)

Туре	Material	For Use With	Catalog Number
		Flush plate XAPE301	XAPE901
	Insulating Fiberglass	Flush plate XAPE302	XAPE902
Protective rear covers		Flush plate XAPE303	XAPE903
		Flush plate XAPE304	XAPE904
		Flush plate XAPE305	XAPE905

9001B Standard Duty Control Stations

Refer to Catalog 9001CT1104



9001B Standard Duty Control Stations

Table 19.339: Control Stations





NEMA 1 Flush Mounting (w/o pullbox) Type BF201



NEMA 4 Type BW243



NEMA 7 and 9 Type BR103

Table 19.340: Accessories		
Description	Color	Type [9]
Mushroom Caps for NEMA 1	Red	B301
Mushroom Caps for NEMA 4	Red	B303
Lockout Kit for NEMA 1	_	B321
Pilot Light Lenses, NEMA 1 Surface Mount	Red	B331
Pilot Light Lenses, NEMA 1 Surface Mount	Green	B332
Pilot Light Lenses, NEMA 1 Flush Mount	Red	B341
Pilot Light Lenses, NEMA 1 Flush Mount	Green	B342
Replacement Covers for BW240 [10]	_	BWD219
Replacement Covers for BW241 [11][10]	_	BWD220
Replacement Covers for BW242-BW260 [10]	_	BWD219

No. of Buttons	Nameplate Markings and Features	Contact Symbol [6]	Surface Mounting NEMA1	Stainless Steel Flush Plate [7]	Watertight and Dusttight NEMA4	For Hazardous Locations NEMA 7 & 9 [8]
			Type [9]	Type [9]	Type [9]	Type [9]
	Start	1	BG101	BF101	BW146	BR101
	Stop	3	BG102	BF102	BW147	_
	Stop (Mushroom Button)	3	BG103	_	BW151	BR103
	Stop (Lockout)	3	BG104	_	BW148	BR104
1	Universal (w/o legend insert)	16	BG107	BF107	BW159	BR107
•	Off-On (Selector Switch)	19	BG111	_	_	_
	Hand-Off-Auto (Selector Switch)	17	BG112	_	_	_
	Universal Selector Switch (w/o legend insert)	19 or 17	BG114	_	_	_
	Start-Stop	145	BG201	BF201	BW240	BR204
	Start-Stop (for latching Applications)	146	BG202	_	BW252	BR202
	Start-Stop (Mushroom on Stop)	145	BG203	_	BW250	BR203
	Start-Stop (Lockout on Stop)	145	BG204	_	BW241	BR204
	Start-Stop (Mushroom on both)	145	BG205	_	BW246	BR205
	Forward-Reverse	146	BG206	_	BW242	
	Open-Close	146	BG207	_	BW244	
2	Up-Down	146	BG208	BF208	BW243	BR208
	Raise-Lower	146	BG209	_	BW253	_
	On-Off	145	BG210	BF210	BW245	<u> </u>
	On-Off	146	BG211	BF211	BW254	
	Universal (w/o legend inserts)	25	BG214	_	BW260	BR214
	Start-Stop (Maintained Contact)	10	BG215	BF215	BW255	BR215
	On -Off (Maintained Contact)	10	BG216	BF216	BW256	BR216
	Universal (Maintained contact w/o legend inserts)	10	BG218	_	_	BR218
	Fast-Slow-Stop	109	BG301	_	_	
	Forward-Reverse-Stop	109	BG302	_	_	
	Opn-Close-Stop	109	BG303	BF303	_	
	Raise-Lower-Stop	109	BG304	_	_	
3	Up-Down-Stop	109	BG305	BF305	_	_
	Start-Jog-Stop	109	BG316		_	
	Universal (w/o legend inserts)	8	BG307		_	_
	Start-Stop, Red Pilot Light: 120Vac/dc	145 & 121	BG308	BF308		

Table 19.341: Interchangeable Push Button Legend Inserts

Marking	For NEMA 1 Surface Mount [9]	For NEMA 4 or 7/9 Lever Type [9]	For NEMA 4 Round Button [9]	For NEMA4 Mushroom Button [9]
Start	B101	B161	B259	B282
Stop	B102	B162	B260	B283
Fast	B103	_	_	_
Slow	B104	_	_	_
Forward	B105	_	B255	_
Reverse	B106	_	B256	_
Open	B107	_	B263	_
Close	B108	_	B264	_
Raise	B109	_	B261	_
Lower	B110	_	B262	
Up	B111	_	B253	B276
Down	B112	_	B254	B277
On	B115	B175	B257	_
Off	B116	B176	B258	_
Hand	B117	_	B265	_
Auto	B118	_	B266	_
Jog	B119	_	_	_
Blank (Black)	B129	B189	B251	B251
Blank (Red)	B129R	B189R	B252	B252

For Replacement Interiors, see Replacement Interiors for Type B Standard Duty Push Button Stations, page 19-117.

For Ratings, see Electrical Contact Ratings, page 19-117.

See Table 19.342 Replacement Interiors For Type B Standard Duty Push Button Stations , page 19-117.

Uses standard 2.0 or 2.13 in. deep wall boxes, single gang for Types BF1 and BF2, two gang for Type BF3

Also rated for Class I, Division I and II, Groups B, C, or D; Class II, Division I and II, Groups E, F, or G

When ordering, add prefix 9001 to the catalog number.

Replacement case/covers are not availulable for Type BR devices. [7]

^[8]

^[9] [10]

^[11] Includes factory installed lockout on the cover.



Type B Standard Duty Control Stations— Replacement Parts

Class 9001 / Refer to Catalog 9001CT1104



Table 19.342: Replacement Interiors For Type B Standard Duty Push Button Stations



Type BGC214 (Type BGC contact block assemblies include cover.)



Type BGB214



BOC361

For Control Station	Contact Symbol	Contact Block Assembly [1]	Terminal Block Wirir Receptacle
Туре		Type	Туре
BF101-BF107	16	BOC107	BFB107
BF111-BF114	19 or 17	BOC114	BFB114
BF121-BF123	121	BOC123	BFB123
BF201-BF214	25	BOC214	BFB214
BF215-BF218	10	BOC218	BFB214
BF221-BF224	7 or 19 & 121	BOC224	BFB224
BF225-BF226	17 or 19 & 16	BOC226	BFB226
BF301-BF307	8	BOC214 & BOC107	BFB214 & BFB107
BF308-BF309	25	BOC214 & BOC123	BFB214 & BFB123
BF310-BF313	& 121 10 & 121	BOC218 & BOC123	BFB214 &
			BFB123
BF314-BF315	17 or 19 & 25	BOC214 & BOC114	BFB214 & BFB114
BG101-BG107	16	BGC107	BGB107
BG111-BG114	17 or 19	BGC114	BGB114
BG121-BG123	121	BGC123	BGB123
BG201-BG214	25	BGC214	BGB214
BG215-BG218	10	BGC218	BGB214
BG221-BG224	17 or 19 & 121	BGC224	BGB224
BG225-BG226	17 or 19 & 16	BGC226	BGB226
BG301-BG307 BG316-BG326	8	BGC307	BGB307
BG308-BG309	25 & 121	BGC309	BGB309
BG310-BG313	10 & 121	BGC313	BGB309
BG314-BG315	17 or 19 & 25	BGC315	BGB315
BR101-BR107	16	BOC107	BFB107
BR202-BR214	25	BOC214	BFB214
BR215-BR219	10	BOC218	BFB214
BW101-BW107	16	BOC107	BFB107
BW202-BW214	25	BOC214	BFB214
BW215-BW218	10	BOC218	BFB214
BW146-BW159	16	BOC360	
BW240-BW260	25	BOC361	
BW255-BW258	10	BOC362	

NOTE: Contact block assemblies for all Type BG stations include cover and contact block. Replacement contact block assemblies and terminal block wiring receptacles for push buttons have provision for 1 N.O. & 1 N.C. circuit on each button. Unneeded circuits need not be wired.

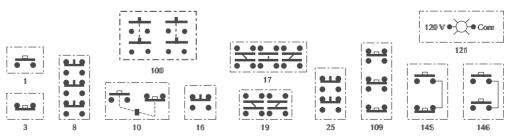
Table 19.343: Mounting Bracket

Description	Catalog Number
C-Shaped Mounting Bracket for 9001BR Interior	3110112001

Table 19.344: Electrical Contact Ratings [2]

	AC—NEMA B600						DC-NEMA P	600		
	Inductive Resistive 35% Power Factor 75% Power Factor						Inductive	and Resistive		
Volts	Ma	ike	Bro	eak	Continuous	Make, Break and	Volts	Make and Break	Continuous	
	Α	VA	Α	VA	Carrying Amperes	Continuous Carrying Amperes			Amperes	Carrying Amperes
120 240 480 600	30.5 15 7.5 6	3600 3600 3600 3600	3.75 1.5 .75 .6	360 360 360 360	5 5 5 5	5 5 5 5	120 240 600	1.1 0.55 0.2	5 5 5	

Contact Symbols



Order separate legend plates, if required, from Table 19.341 Interchangeable Push Button Legend Inserts, page 19-116.

^[2] OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.



9001KY and 9001SKY Control Stations

Table 19.345: Empty Enclosures (for Customer Assembly) [1]



NOTE: See Table 19.348 Assembled Control Stations, page 19-119

Table 19.346: Guarded Enclosures

	UL T NE	ypes 1, 3, 4 and 13/ MA 1, 3, 4 and 13	
		Die Cast Zinc	
No of Holes	Cover Color	Box Color	Туре
1	Gray	Gray	KYG1 [3]
1	Yellow	Gray	KYG1Y [3]

NOTE: See Table 19.348 Assembled Control Stations, page 19-119

Table 19.347: Stainless Steel (302) NEMA 1 Flush Plates [4]

No of Holes	Description	Type
1	1 Hole flush plate, cover screws, insulating liners	K25
2	2 Hole flush plate, cover screws, insulating liners	K26
3	3 Hole flush plate, cover screws, insulating liners	K27
4	4 Hole flush plate, cover screws, insulating liners	K28



KYG1Y (mushroom head not included)



K26

When ordering, add prefix 9001 to the catalog number.

Only KN200 series legend plates will fit upright on these enclosures with their long axis vertical. Includes 1" NPT threaded conduit opening.

^[2] [3] [4]

To be used with a standard 2 x 3 in. general purpose switch box. A 2.5 in. deep switch box should be used if two Type KA contact blocks are mounted side by side. If two Type KA contact blocks are mounted in tandem, a 3.5 in. deep box should be used.



9001KY/SKY Control Stations Class 9001 / Refer to Catalog 9001CT1104

Assembled 9001KY/SKY Control Stations

Table 19 348: Assembled Control Stations

No of Holes Operator Style and Features Type Enclosure Operators	nsists of	
Selector Switch (3 Pos Maintained) KYK111 KY1 KS43B	Contact Blocks	Legend Plates
Selector Switch (2 Pos Maintained) KYK110 KY1 KS11B	1,,,,	I.,
Push Button (Momentary) KYK11 KY1 KR1B Push Button (Momentary) KYK13 KY1 KR1R Mushroom Button (Momentary) KYK14 KY1 KR4R	KA1	Hand-Off-Auto
1 Push Button (Momentary) KYK13 KY1 KR1R Mushroom Button (Momentary) KYK14 KY1 KR4R	KA1	Off-On
Mushroom Button (Momentary) KYK14 KY1 KR4R	KA1	Start
Mushroom Button (Momentary) KYK14 KY1 KR4R	KA1	Stop
	KA1	Stop
Push Button (with Lockout) KYK15 KY1 KR3R, K4	KA1	Stop
Break Glass Operator KYK116 KY1 K15	KA1	To Stop—Break Glass
Break Glass Operator (Red Enclosure) KYK117 KY1S1 K15	KA1	To Stop—Break Glass
2 Push Buttons (Lockout on Stop) KYK224 KY2 KR1B, KR3R, K4	KA1, KA1	Jog-Stop
2 Push Buttons KYK218 KY2 KR1B, KR3R	KA1, KA1	On-Off
2 Push Buttons KYK26 KY2 KR1B, KR1B	KA1, KA1	Open-Close
2 Push Buttons KYK25 KY2 KR1B, KR1B	KA1, KA1	Up-Down
KYK31 2 2 Push Buttons KYK21 KY2 KR1B, KR3R	KA1, KA1	Start-Stop
2 Push Buttons (with Sealed Contacts) [6] KYK223 KY2 KR1B, KR3R	KA51, KA51	Start-Stop
2 Push Buttons (Lockout on Stop) KYK23 KY2 KR1B, KR3R, K4	KA1, KA1	Start-Stop
2 Push Buttons (Maintained/Interlocked) KYK27 KY2 KR11GR	KA1	Start-Stop
		Start-Stop
1 Push Button, 1 Mushroom Button KYK22 KY2 KR1B, KR4R	KA1, KA1	
3 Push Buttons KYK31 KY3 KR1B, KR1B, KR3R	KA1, KA1, KA1	Forward; Reverse; Sto
3 Push Buttons (Lockout on Stop) KYK326 KY3 KR1B, KR1B, KR3R, K4	KA1, KA1, KA1	Forward; Reverse; Sto
3 Push Buttons (With Sealed Contacts & Lockout on Stop) [6] KYK322 KY3 KR1B, KR1B, KR3R, K4	KA51, KA51, KA51	Forward; Reverse; Sto
3 Push Buttons KYK33 KY3 KR1B, KR1B, KR3R	KA1, KA1, KA1	Open; Close; Stop
Red 120v Pilot Light, 2 Push Buttons KYK317 KY3 KP1R31, KR1B, KR3R	KA2, KA3	Start; Stop
3 Push Buttons KYK32 KY3 KR1B, KR1B, KR3R	KA1, KA1, KA1	Up; Down; Stop
3 Push Buttons (Lockout on Stop) KYK325 KY3 KR1B, KR1B, KR3R, K4	KA1, KA1, KA1	Up ; Down; Stop
UL Types 1, 3, 4 and 13/NEMA 1, 3, 4 and 13—Stainless Steel (304) [7]		
Push Button (Momentary) KYSS101 KYSS1 KR1B	KA1	Start
Push Button (Momentary) KYSS103 KYSS1 KR1B	KA3	Stop
Selector Switch (2 Pos Maintained) KYSS110 KYSS1 KS11B	KA1	Off-On
Selector Switch (3 Pos Maintained) KYSS111 KYSS1 KS43B	KA1	Hand-Off-Auto
	KA1, KA3	Start; Stop
2 Push Buttons		· · · · · · · · · · · · · · · · · · ·
	KA1, KA3	Start; Stop
2 Push Buttons (Maintained with Interlock) KYSS210 KYSS2 KR11U	KA1, KA1	Start; Stop
2 Push Buttons KYSS205 KYSS2 KR1B, KR1B	KA1, KA1	Up; Down
UL Types 1, 3, 4. 4X and 13/NEMA 1, 3, 4, 4X and 13—Stainless Steel (304) [8]		l e e e e e e e e e e e e e e e e e e e
Push Button (Momentary) KYSK101 KYSS1 SKR1B	KA1	Start
Push Button (Momentary) KYSK103 KYSS1 SKR3R	KA3	Stop
Selector Switch (2 Pos Maintained) KYSK110 KYSS1 SKS11B	KA1	Off-On
Selector Switch (3 Pos Maintained) KYSK111 KYSS1 SKS43B	KA1	Hand-Off-Auto
2 Push Buttons KYSK201 KYSS2 SKR1B, SKR3R	KA1, KA3	Start; Stop
2 Push Buttons (Lockout on Stop) KYSK203 KYSS2 SKR1B, SKR3R, K5	KA1, KA3	Start; Stop
2 Push Buttons (Maintained with Interlock) KYSK210 KYSS2 SKR11U	KA1, KA1	Start; Stop
2 Push Buttons KYSK205 KYSS2 SKR1B, SKR1B	KA1, KA1	Up; Down
UL Types 1, 3, 4, 4X and 13/NEMA 1, 3, 4, 4X and 13—Polymeric (Plastic) [8]	1011,1011	
Selector Switch (3 Pos Maintained) SVV444 SVV4 SVC42P	KA1	Hand-Off-Auto
SKY201 Selector Switch (2 Pos Maintained) SKY110 SKY1 SKS11B SKS11B	KA1	Off-On
Selector Switch (2 Dos Maintained with Sealed	KA51	Off-On
1 Selector Switch (2 Pos Maintained with Sealed Contacts) (6) SKY122 SKY1 SKS11B	KA3	Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B	KA1, KA3	Start-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) [6] Push Button (with Lockout) SKY105 SKY1 SKS11B SKR3R, K5		Start-Stop
1 Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R		
1 Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5	KA1, KA3	
1 Selector Switch (2 Pos Maintained with Sealed Contacts) (6) SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5 2 2 Push Buttons (With Sealed Contacts) [6] SKY223 SKY2 SKR1B, SKR3R	KA51, KA51	Start-Stop
1 Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5 2 2 Push Buttons (With Sealed Contacts) [6] SKY223 SKY2 SKR1B, SKR3R 2 Push Buttons (With Sealed Contacts) [6] SKY222 SKY2 SKR1B, SKR3R	KA51, KA51 KA51, KA51	Start-Stop On-Off
1 Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5 2 Push Buttons (With Sealed Contacts) [6] SKY223 SKY2 SKR1B, SKR3R 2 Push Buttons (With Sealed Contacts) [6] SKY222 SKY2 SKR1B, SKR3R 2 Push Buttons SKY205 SKY2 SKR1B, SKR1B	KA51, KA51 KA51, KA51 KA1, KA1	Start-Stop On-Off Up-Down
1 Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5 2 2 Push Buttons (With Sealed Contacts) [6] SKY223 SKY2 SKR1B, SKR3R 2 Push Buttons (With Sealed Contacts) [6] SKY222 SKY2 SKR1B, SKR3R 2 Push Buttons SKY205 SKY2 SKR1B, SKR1B 3 Push Buttons SKY302 SKY3 SKR1B, SKR3R	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) (6)	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop Open-Close-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) (6)	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) (6)	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop Open-Close-Stop
1 Selector Switch (2 Pos Maintained with Sealed Contacts) (6) SKY122 SKY1 SKS11B Push Button (with Lockout) SKY105 SKY1 SKR3R, K5 2 Push Buttons SKY201 SKY2 SKR1B, SKR3R 2 Push Buttons (Lockout on Stop) SKY203 SKY2 SKR1B, SKR1R, K5 2 2 Push Buttons (With Sealed Contacts) (6) SKY223 SKY2 SKR1B, SKR3R 2 Push Buttons (With Sealed Contacts) (6) SKY222 SKY2 SKR1B, SKR3R 2 Push Buttons SKY205 SKY2 SKR1B, SKR1B 3 Push Buttons SKY302 SKY3 SKR1B, SKR3R 3 Push Buttons SKY303 SKY3 SKR1B, SKR1B, SKR3R Red 120v Pilot Light, 2 Push Buttons SKY315A SKY3 SKP1R31, SKR1B, SKR3B,	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop Open-Close-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) (6)	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3 KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop Open-Close-Stop Start-Stop
Selector Switch (2 Pos Maintained with Sealed Contacts) [6] SKY122 SKY1 SKS11B	KA51, KA51 KA51, KA51 KA1, KA1 KA1, KA1, KA3 KA1, KA1, KA3 KA1, KA3	Start-Stop On-Off Up-Down Up-Down-Stop Open-Close-Stop Start-Stop order separately

^[5]

Uses 9001K metal operators and metal legend plates.

Control Station consists of components that are UL listed for use in Class 1, Division 2, Groups A, B, C, or D. Uses 9001K metal operators and plastic legend plates.

Uses 9001SK plastic operators and plastic legend plates.

Includes 1" NPT threaded conduit opening.

^[6] [7] [8]





Point of Purchase—PoP Products

Schneider Electric has recently expanded its line of Point of Purchase Blister Packs, comprised of 36 popular products, including: push-buttons, pendants, signaling and relay devices. These blister packs are conveniently packaged with all the associated components and accessories that you'll need to complete your installation. Point-of-Purchase packaging makes it easy for you, so you can just grab what you need and go!

Table 19.349: 30 mm Push Buttons

Tuble 10.040. 00 IIIII 1 uoli Buttolio			
Description	Package Includes	Catalog Number	
30 mm Push Button with contact block and multi colors	9001KR1U + 9001KA1+ 9001KN201 + 9001KN202	9001AB1	
30 mm Push Pull Mushroom	9001KR9R + 9001KA1	9001AB2	
30 mm Mushroom with Legend	9001KR5R + 9001KA1 + 9001KN205	9001AB3	
30 mm 2 Position Selector Switch with contact and legend	9001KS11B + 9001KA1 + 9001KN244	9001AS1	
30 mm 3 Position Selector Switch with contact and legend	9001KS43B + 9001KA1 + 9001KN260	9001AS2	
Pilot Light (KP)	9001KP1 + 9001R9 + 9001G9	9001AL1	
30 mm Control Station	9001BG201	9001AE3	

Table 19.350: 22 mm Push Buttons

Description	Package Includes	Catalog Number
22 mm PB with contact block + 6 colors	ZB4BZ101 + ZB4BA9	XB4AB1
22 mm Mushroom with contact	XB4BS542	XB4AB2
22 mm 2 Position Selector Switch	XB4BD21	XB4AS1
22 mm 3 Position Selector Switch	XB4BJ33	XB4AS2
22 mm control station - Mushroom	XALK178	XALACS1
22 mm control station - 2 button	XALD211	XALACS2

Table 19.351: Pendants

Description	Package Includes	Catalog Number
BW Pendant	9001BW92Y	9001BWP1

Table 19.352: Tower Lights

Description	Package Includes	Catalog Number
40 mm tower light (3) 24V AC/DC	XVC4B3K	XVCTL1

Table 19.353: Power Relays

Description	Package Includes	Catalog Number
Open Power Relay 120VAC, DPDT	8501CO16V20	8501CDPDT
Open Power Relay 120VAC, DPST-N.O.	8501CO7V20	8501CDPST
Open Power Relay 120VAC, SPST-N.O.	8501CO6V20	8501CSPST

Table 19.354: Slim and Interface Relays

•			
Description	Package Includes	Catalog Number	
RSL pre-assembled (24V screw conn)	RSL1PVBU + RSLZ5	ASLSCR24	
RSL pre-assembled (24V spring conn)	RSL1PRBU + RSLZ5	ASLSPR24	
RSL pre-assembled (120 V screw conn)	RSL1PVFU + RSLZ5	ASLSCR120	
RSL pre-assembled (120 V spring conn)	RSL1PRFU + RSLZ5	ASLSPR120	
RSB1 pre-assembled 24VDC	RSB1A120BD + RSZE1S35M + RZM031RB + RSZR215 + RSZL300	RSB1SOC24D	
RSB2 pre-assembled 24VDC	RSB2A080BD + RSZE1S48M + RZM031RB + RSZR215 + RSZL300	RSB2SOC24D	

Table 19.355: Plug-In Relays

rubio relevent rug in rusiuye				
Description	Package Includes	Catalog Number		
RPM1 24 VDC pre-assembled	RPM12BD + RPZF1 + RPZR235 + RXM040W + RXZL520	RPM1SOC24D		
RPM1 120 VAC pre-assembled	RPM12F7 + RPZF1 + RPZR235 + RXM021FP + RXZL520	RPM1SOC120A		
RXM4 24 VDC pre-assembled	RXM4AB2BD + RXZE2M114 + RXM040W + RXZR335 + RXZL520	RXM4SOC24D		
RXM4 120 VAC pre-assembled	RXM4AB2F7 + RXZE2M114 + RXM021FP + RXZR335 + RXZL520	RXM4SOC120A		



9001AB1



9001AE3



XB4AB1



XALACS2



XVCTL1



Refer to Catalog DIA5ED2130801EN



XVB 70 mm Diameter Beacons

Table 19.356: XVB Beacons with Steady Light

Description	Light Source and Voltage	Color	Catalog Number
Complete unit, includes: 1 lens unit 1 base unit (direct or tube mounting)	Bulb (10 W max) not included 250 V max (must order bulb separately [1])	Green	XVBL33
		Red	XVBL34
		Amber	XVBL35
		Blue	XVBL36
		Clear	XVBL37
		Yellow	XVBL38

Table 19.357: XVB Beacons with Flashing Light (one flash per second)

Description	Light Source and Voltage	Color	Catalog Number
	Bulb (10 W max) not included 24 Vac 24–48 Vdc (must order bulb separately [1])	Green	XVBL4B3
		Red	XVBL4B4
		Amber	XVBL4B5
		Blue	XVBL4B6
Complete unit, includes:		Clear	XVBL4B7
1 lens unit		Yellow	XVBL4B8
1 base unit (direct or	Bulb (10 W max) not included 48–230 Vac (must order bulb separately	Green	XVBL4M3
not included		Red	XVBL4M4
		Amber	XVBL4M5
		Blue	XVBL4M6
		Clear	XVBL4M7
	Yellow	XVBL4M8	

Table 19.358: XVB Beacons with 10 Joule Strobe (2.75 in./70 mm diameter) [2]

Description	Light Source and Voltage	Color	Catalog Number [3]
	Strobe 24 Vac/Vdc (includes bulb)	Green	XVBL8B3
		Red	XVBL8B4
		Amber	XVBL8B5
		Blue	XVBL8B6
Complete unit, includes:		Clear	XVBL8B7
1 lens unit		Yellow	XVBL8B8
1 base unit (direct or	Strobe 120 Vac (includes bulb)	Green	XVBL8G3
tube mounting)		Red	XVBL8G4
		Amber	XVBL8G5
		Blue	XVBL8G6
		Clear	XVBL8G7
		Yellow	XVBL8G8

NOTE: There are no replacement lenses for strobes







XVBL6B• 5 Joule

Important: Discharge tube elements are not suitable for continuous-operation signaling due to temperature rise caused by the discharge tube. [2] For 5 Joule units, specify XVBL6., instead of XVBL8.



XVB 70 mm Components

Table 19.359: XVB Lens Units for Steady Light

Description	Light Source and Voltage	Color	Catalog Number
Illuminated lens unit Bulb (10 W max) not included 250 Vac/Vdc max (must order bulb separately [4])	Green	XVBC33	
		Red	XVBC34
		Orange	XVBC35
		Blue	XVBC36
		Clear	XVBC37
		Yellow	XVBC38

Table 19.360: XVB Lens Unit for Flashing Light

Description	Light Source and Voltage	Color	Catalog Number
Bulb (10 W max) not included 24 Vac 24-48 Vdc	Rulb (10 W max)	Green	XVBC4B3
		Red	XVBC4B4
	24 Vac	Orange	XVBC4B5
		Blue	XVBC4B6
	(must order bulb separately [4])	Clear	XVBC4B7
Illuminated lens unit	separately [4])	Yellow	XVBC4B8
mummateu lens unit		Green	XVBC4M3
Bulb (10 W max) not included 48–230 Vac (must order bulb separately [4])		Red	XVBC4M4
		Orange	XVBC4M5
		Blue	XVBC4M6
	Clear	XVBC4M7	
	Yellow	XVBC4M8	

NOTE: There are no replacement lenses units for the XVBC8•• strobes.

Table 19.361: XVB Lens Units with 10 Joule Strobe

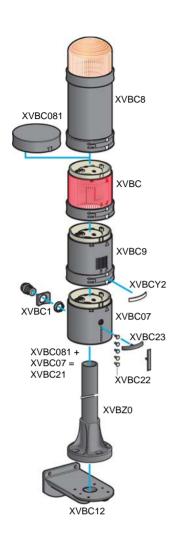
Description	Light Source and Voltage	Color	Catalog Number [5]
	Strobe 24 Vac/Vdc (includes bulb)	Green	XVBC8B3
		Red	XVBC8B4
		Orange	XVBC8B5
		Blue	XVBC8B6
		Clear	XVBC8B7
Lens unti with integral		Yellow	XVBC8B8
10 Joule strobe	Strobe	Green	XVBC8G3
		Red	XVBC8G4
		Orange	XVBC8G5
	(includes bulb)	Blue	XVBC8G6
	(Clear	XVBC8G7
		Yellow	XVBC8G8

Table 19.362: Audible Sounder Units

Description	Supply Voltage	Catalog Number
Sounder unit 90 dB at 1 m	12-48 Vac/Vdc	XVBC9B
Adjustable from 75–90 dB Continuous or intermittent modes	120–230 Vac	XVBC9M

Table 19.363: Base Units + Cover

Description	Catalog Number
Base unit + cover for direct or tube mounting, bottom or side cable entry (includes gasket)	XVBC21

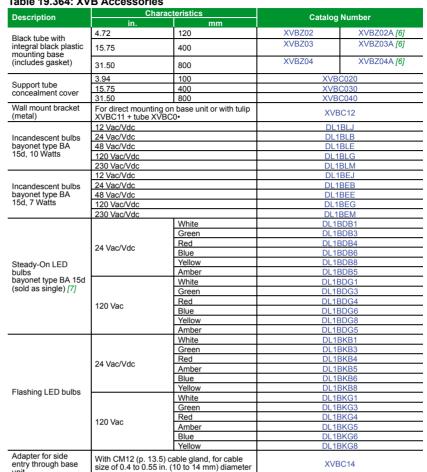


XVBC00

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Refer to Catalog DIA5ED2130801EN

XVB 70 mm Accessories Table 19.364: XVB Accessories







XVBC020



XVBC12

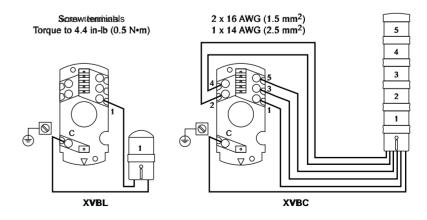
Table 19.365: XVB Markers and Legend Holders

1/2 in. NPT (for customer supplied tubing)

Description	Characteristics	Catalog Number
Set of colored markers	6 colors	XVBC22
Set of 5 legend holders	Identification of stacked units on base	XVBC23

Wiring Diagrams, Base Units

Conduit adapter





XVC Tower Lights and Accessories

Table 19.366: XVC4 Tower Lights — 40 mm diameter (1.5 inches)

Description	scription Light source Voltage		Signaling	Signaling colors [8]	
Description	(included)	voitage	Steady	Flashing	Catalog Number
With support tube moun	ting				
			R	_	XVC4B1
			R, O	_	XVC4B2
		24 Vdc	R, O, G	_	XVC4B3
Without buzzer			R, O, G, B	_	XVC4B4
	LED for steady		R, O, G, B, C	_	XVC4B5
	light only		R	_	XVC4M1
		100-240	R, O	-	XVC4M2
		100-240 Vac	R, O, G	-	XVC4M3
		vac	R, O, G, B	-	XVC4M4
			R, O, G, B, C	-	XVC4M5
		24 Vdc	R	R	XVC4B15S
			R, O	R, O	XVC4B25S
			R, O, G	R, O, G	XVC4B35S
			R, O, G, B	R, O, G, B	XVC4B45S
With buzzer	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC4B55S
+ flashing light	flashing light [9]		R	R	XVC4M15S
			R, O	R, O	XVC4M25S
		100-240 Vac	R, O, G	R, O, G	XVC4M35S
		Vuo	R, O, G, B	R, O, G, B	XVC4M45S
			R, O, G, B, C	R, O, G, B, C	XVC4M55S
For base mounting					
			R	_	XVC4B1K
	I CD for stoody		R, O	-	XVC4B2K
Without buzzer	LED for steady light only	24 Vdc	R, O, G	-	XVC4B3K
	ingrit only		R, O, G, B	_	XVC4B4K
			R, O, G, B, C	_	XVC4B5K

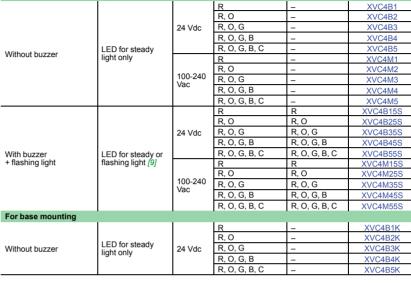


Table 19.367: Accessories for XVC4

Description	Diameter mm	Minimum height to be added mm	Catalog Number
Die-cast metal mounting base (for use with XVC4•• and XVC4••5S with support tube)	90	32	XVCZ11
Plastic mounting base (for use with XVC4, XVC4•• and XVC4••5S — customer must discard the support tube)	84	24.5	XVCZ01

Table 19.368: XVC Tower Lights — 100 mm diameter (4 inches)

Description	Light source	Voltage	Signaling colors [8]		Catalog
Description	(included)	Vdc	Steady	Flashing	Number
For base mounting					•
			R	R	XVC1B1K
			R, O	R, O	XVC1B2K
Without buzzer With flashing light		24	R, O, G	R, O, G	XVC1B3K
			R, O, G, B	R, O, G, B	XVC1B4K
	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC1B5K
	flashing light [9]		R	R	XVC1M1K
			R, O	R, O	XVC1M2K
		100-240 Vac	R, O, G	R, O, G	XVC1M3K
		vac	R, O, G, B	R, O, G, B	XVC1M4K
			R, O, G, B, C	R, O, G, B, C	XVC1M5K
			R	R	XVC1B1SK
			R, O	R, O	XVC1B2SK
		24	R, O, G	R, O, G	XVC1B3SK
			R, O, G, B	R, O, G, B	XVC1B4SK
With buzzer	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC1B5SK
+ flashing light	flashing light [9]		R	R	XVC1M1SK
		400.040	R, O	R, O	XVC1M2SK
		100-240 Vac	R, O, G	R, O, G	XVC1M3SK
		Vuo	R, O, G, B	R, O, G, B	XVC1M4SK
		R, O, G, B, C	R, O, G, B, C	XVC1M5SK	

Table 19.369: Accessories for XVC1

Table 13.303. Accessories for AVC1							
Description	Diameter mm	Height mm	Catalog Number				
Mount tube and base	140	300	XVCZ13				
L-shape mount bracket	_	_	XVCZ23				







XVC Z01









Refer to Catalog **DIA5ED2130801EN**





Table 19.370: XVC6 Tower Lights, 60 mm diameter (2.375 inches)

Baranin dan	Light source	N/-16	Signaling colors [10]		Catalog
Description	(included)	Voltage	Steady	Flashing	Number
With support tube	mounting				
		1	R	-	XVC6B1
			R, O	_	XVC6B2
		24 Vdc	R, O, G	_	XVC6B3
			R, O, G, B	-	XVC6B4
Without buzzer	LED for steady		R, O, G, B, C	_	XVC6B5
	light only		R	_	XVC6M1
			R, O	_	XVC6M2
		100-240 Vac	R, O, G	_	XVC6M3
		vac	R, O, G, B	_	XVC6M4
			R, O, G, B, C	_	XVC6M5
			R	R	XVC6B15S
			R, O	R, 0	XVC6B25S
		24 Vdc	R, O, G	R, O, G	XVC6B35S
			R, O, G, B	R, O, G, B	XVC6B45S
With buzzer	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC6B55S
+ flashing light	flashing light [11]		R	R	XVC6M15S
			R, O	R, O	XVC6M25S
		100-240 Vac	R, O, G	R, O, G	XVC6M35S
		vac	R, O, G, B	R, O, G, B	XVC 6M45S
			R, O, G, B, C	R, O, G, B, C	XVC6M55S
For base mounting	g				
			R	-	XVC6B1K
			R, O	_	XVC6B2K
		24 Vdc	R, O, G	_	XVC6B3K
			R, O, G, B	_	XVC6B4K
Without buzzer	LED for steady		R, O, G, B, C	_	XVC6B5K
without buzzer	light only		R	_	XVC6M1K
		100.010	R, O	_	XVC6M2K
		100-240 Vac	R, O, G	_	XVC6M3K
		vac	R, O, G, B	_	XVC6M4K
			R, O, G, B, C	-	XVC6M5K
			R	R	XVC6B15SK
			R, O	R, 0	XVC6B25SK
		24 Vdc	R, O, G	R, O, G	XVC 6B35Sk
			R, O, G, B	R, O, G, B	XVC6B45SK
With buzzer	LED for steady or		R, O, G, B, C	R, O, G, B, C	XVC6B55SK
+ flashing light	flashing light [11]		R	R	XVC6M15Sk
			R, O	R, O	XVC6M25Sk
		100-240 Vac	R, O, G	R, O, G	XVC6M35SK
		vac	R, O, G, B	R, O, G, B	XVC6M45SK
			R, O, G, B, C	R, O, G, B, C	XVC6M55SK





Table 19.371: Accessories for XVC6

Description	Diame- ter mm	Minimum height to be added mm	Catalog Number		
Die-cast metal mounting base for XVC6B• and XVC6B•5S with support tube.	100	30	XVCZ02		
Stamped metal mounting base for XVC6B• K and XVC6B•5SK	84	21.6	XVCZ12		





XVU 60 mm Diameter Tower Lights Description

The XVU tower lights are customer assembled products comprising:

- 1. Top cover (Black or Silver)
- 2. Buzzer unit (Black or Silver) [12]
- 3. Illuminated units: [13]
 - a. LED illuminated units (Colors: Green, Red, Orange, Blue, White or Yellow)
 - Multi-color LED unit (Colors: Green, Red, Orange, Blue, White or Yellow. Patterns: steady, blinking, flashing, or rotating)
- 4. Sound unit [14]
- 5. Body extender (Black or Silver)
- 6. DC body unit (Black or Silver)
- 7. AC body unit (Black or Silver)
- 8. Flexible mounting module
- 9. Direct mounting plate (Black or Silver)
- 10. 100 mm/3.937 in. pole with fixing plate (Black or Silver)
- 11. Height adjustment pole from 210 to 385 mm/8.268 to 15.157 in. [15]

Composition

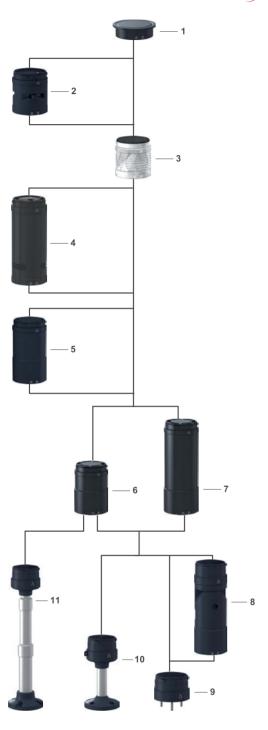
- XVU tower lights are customer assembled signaling units that are mounted on the body of the unit with a mounting accessory.
- Maximum of 5 illuminated units or 4 illuminated units with 1 audible unit can be assembled. The illuminated or audible unit [16], stack vertically.
- With the indicator marks on these units they can be easily assembled.
- Electrical connections between each unit are made automatically as they are mechanically assembled.
- The signaling units are identical in size and their positioning is unrestricted.

Mounting

Fixed into support panel using direct mounting plate, 100mm/3.937 in. pole with mounting plate or adjustment pole.

Cabling

By means of spring cage connection terminal block incorporated in mounting unit (Direct mounting plate, pole with plate, adjustment pole)



[14] (3)Sound module can work without LED unit

[15] Only for DC body unit

[16] Sound module cannot be combined with buzzer unit at the same time.(5)

^[12] Always mounted on the top

^[13] Up to 5 LED illuminated units without sound module; Up to 4 LED illuminated units with sound module



XVU 60 mm Diameter

Refer to Catalog DIA5ED2130407EN



XVU Illuminated LED Units: IP 65

Table 19 372: Illuminated I FD Units: IP 65





Description	Cinnelina Tone	Chara	cteristics	0.1	Catalog Number
	Signaling Type	Voltage	Power	Color	
		24 V	2.5 W	Green	XVUC23
		24 V	2.0 W	Red	XVUC24
	Steady	24 V	2.0 W	Orange	XVUC25
High brightness		24 V	2.5 W	Blue	XVUC26
LED units		24 V	2.5 W	White	XVUC27
222 00		24 V	2.5 W	Yellow	XVUC28
	Steady/blinking/ flashing/rotating	24 V	1.5 W	Multi-color (Green, Red, Orange, Blue, White and Yellow)	XVUC29





XVU Audible Units: IP 54

Table 19.373: Audible units: IP 54





Description	Characteristics		0-1	Catalog Number	
	Voltage Power		Color		
Buzzer, adjustable 70-85 dB at 1 m/	24 V			Black	XVUC9S
3.281 ft (4 configurations of audible signal)		1.7 W	Silver	XVUC9SQ	
Sound, adjustable 0–86 dB at 1m/ 3.281 ft (4 channels)	24 V	1.7 W	Black	XVUC9V	



XVU Body Units: IP 65

Table 19.374: Body units: IP 65

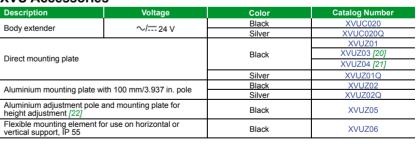


Voltage	Color	Catalog Number
0 /= 24 \	Black	XVUC21B
· 0/ 24 V	Silver	XVUC21BQ
	Black	XVUC21M [18]
~ 100 to 240 V	Black	XVUC21MP [19]
Ī	Silver	XVUC21MQP [19]
	~/24 V	~/24 V Black Silver Black ~ 100 to 240 V Black



XVUZ06

XVU Accessories





XVUZ05

Direct mounting plate XVUZ01● needed for direct mounting

[18] NPN type [19] PNP type

[17]

[20] Two-foot mounting

XVUZ02

XVUZ01Q

[21] Four-foot mounting

(6)Only for use with DC body unit.





XVGU Multi-color USB Tower Lights

The monolithic USB tower lights of the Harmony® XVGU range supports Magelis HMIs [23]. These tower lights with multi-color LEDs are unique and simple-to use as the states and patterns are directly set and modified in the HMI application.

The XVGU tower lights provide long distance indication of the operating status or sequences of a machine or installation, both visually by illuminated signaling units with 360° visibility, and audibly by a buzzer.

- The tower light comes with a pre-assembled USB cable for simple wiring and easy integration with the Magelis HMIs [23] [24]
- The tower light settings are selected from the Set screen of the HMI application at the time of integration.
- The multi-color LEDs on the three levels can be set to numerous color combinations (red, orange, green or blue) for sophisticated signaling.
- The 2-tone buzzer volume and alarm type (4 pre-recorded types) can be set easily.
- The tower lights allow to optimize your equipment: many customized configurations can be made from a sole product.
- The range involves Ø 60 mm/2.36 in. products and is therefore ideal for use in many activity sectors (textiles, packaging, baggage handling). It is also ideal for use with metal tools, plastic extrusion machines and assembly lines. This range is only for indoor applications

NOTE: Signaling colors correspond to a combination of 4 colors (red, orange, green, and blue) which can be set easily in the HMI application.



Description	Light Source (included)	Compatible with terminals [25]	Catalog Number
Tower light composed of 100 mm/3.94 in. aluminium tube mounting, fixing plate and buzzer	Multi-color LED for various states and patterns (red, orange, green, or blue)	XBTGT (except GT1000 series) XBTGC (with SoMachine platform) XBTGK HMIGTO HMIGXO HMISCU	XVGU3SHAV
Tower light composed of direct base mounting and buzzer	Multi-color LED for various states and patterns (red, orange, green, or blue)	XBTGT (except GT1000 series) XBTGC (with SoMachine platform) XBTGK HMIGTO HMIGXO HMISCU	XVGU3SWV



Magelis HMIs [23]



BMXXCAUSBH018

Table 19.376: Accessories

Description	Function	Length	Catalog Number
Connection cable from PC to the terminal (USB Type A/mini B)	Cable for transferring screen data from a PC (USB Type A) to a HMI (USB Type mini B)	1.8 m/5.91 ft	BMXXCAUSBH018

^[23] Compatible with XBTGT (except GT1000 series), XBTGC (with SoMachine platform), XBTGK and HMIGTO terminals.

^[24] For extension, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.

^[25] Compatible with Vijeo Designer HMI configuration software V6.1, Service pack 1



XVR Pre-Wired Rotating Mirror Beacons

Refer to Catalog **DIA5ED2130801EN**























XVC Z23

XVR Pre-Wired Beacons and Accessories Table 19.377: XVR Pre-Wired Rotating Mirror Beacons

Diameter (mm)	Sound Option	Enclosure Rating	Voltage	Color	Catalog Number
				Red	XVR08J04
			12 Vac/Vdc	Orange	XVR08J05
		ID 00	i∠ vac/vdč	Green	XVR08J03
Ø 84	\A(!4 4	IP 23 (IP 65 with		Blue	XVR08J06
Ø 84	Without buzzer	accessories)		Red	XVR08B04
		40000001100)	24 Vac/Vdc	Orange	XVR08B05
			24 Vac/Vdc	Green	XVR08B03
				Blue	XVR08B06
				Red	XVR10J04
			12 Vac/Vdc	Orange	XVR10J05
			12 vac/vdc	Green	XVR10J03
~ 400	1450	IP 23 (IP 55 with		Blue	XVR10J06
Ø 106	Without buzzer	accessories)		Red	XVR10B04
		accessories		Orange	XVR10B05
			24 Vac/Vdc	Green	XVR10B03
				Blue	XVR10B06
			12 Vac/Vdc	Red	XVR12J04
				Orange	XVR12J05
		ID 00		Green	XVR12J03
Ø 400	\A(!4 4			Blue	XVR12J06
Ø 120	Without buzzer	IP 23		Red	XVR12B04
			24 Vac/Vdc	Orange	XVR12B05
				Green	XVR12B03
				Blue	XVR12B06
				Red	XVR12J04S
			12 Vac/Vdc	Orange	XVR12J05S
			12 vac/vdc	Green	XVR12J03S
~ 400	1450 1	ID 00		Blue	XVR12J06S
Ø 120	With buzzer	IP 23		Red	XVR12B04S
			041/0/-	Orange	XVR12B05S
			24 Vac/Vdc	Green	XVR12B03S
				Blue	XVR12B06S
			40.141	Red	XVR13J04
		IP 23	12 Vdc	Orange	XVR13J05
Ø 130	Without buzzer	Resistant to		Red	XVR13B04
		vibration	24 Vdc	Orange	XVR13B05

Table 19.378: XVR Accessories

Description	Diameter (mm)	Height (mm)	Catalog Number
	84	_	XVRZR1
Reflecting prism	106	_	XVRZR2
	120/130	_	XVRZR3
Rubber base	84	_	XVRZ081
to increase the IP degree of protection	106	_	XVRZ082
Mount tube and base	106, 120 and 130	300	XVCZ13
L-shape mounting bracket	84, 106 and 120	_	XVCZ23

XVS14BMW

XVS14BMW

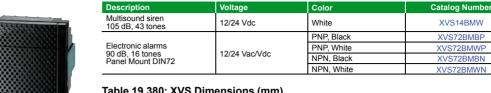
XVS72BMBP

XVS72BMWP

XVS72BMWN

XVS Sirens and Electronic Alarms

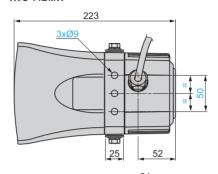


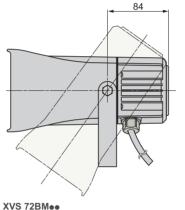


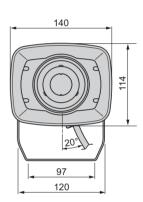


XVS72BM

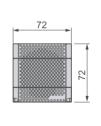
Table 19.380: XVS Dimensions (mm) XVS 14BMW







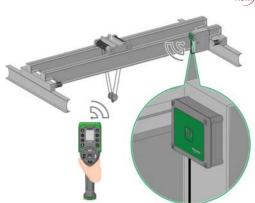
69,3 63,3 10,9 60,7 Z 67,5





Wireless Remote Control System

Refer to Catalog DIA5ED2140103EN





Harmony eXLhoist Operator Control Stations
The Harmony® eXLhoist range of wireless remote control systems provide complete and innovative crane operator control solutions to: improve the machine and crane operator efficiency, enhance safety for people and equipment, and to reduce installation and maintenance downtime.

The remote control system XARS is a combination of remote control device (or transmitter: XART) and base station (or receiver: XARB), which transmits commands and information from the operator to the machine and vice versa by a wireless transmission means.

The XARS system offers movement in 3 directions (for example: hoist, bridge, and trolley) at 2 speed levels (low and high) for each movement.

The 2 modes available in the system are:

- Single mode: the remote control device controls one base station
- Tandem mode: the remote control device controls 2 base stations simultaneously.

Table 19.381: Remote Control Devices

Description	Charac	Catalan Numbana	
Description	Motion push buttons	Auxiliary push buttons	Catalog Numbers
With LEDs	6	2	ZART8L
With display	6	2	ZART8D
With display	6	6	ZART12D

Table 19.382: Base Station

December 1	Characteristics		B 0	Ostala a Namahan	
Description	Outputs	Inputs	Power Supply (V)	Catalog Number	
Wired connection cable gland	12 relays + 2 safety relays	_	∼/ 24–240	ZARB12W	
Industrial plug connection	12 relays + 2 safety relays	_	∼/ 24–48	ZARB12H	
Wired connection cable gland	18 relays + 2 safety relays	18 digital (12 limiters + 6 alarms)	∼/ 24–240	ZARB18W	
Industrial plug connection	18 relays + 2 safety relays	18 digital (12 limiters + 6 alarms)	~/ 24-48	ZARB18H	



ZART8L



ZART8D



ZARB12H



ZARB18W

Table 19.383: Wireless Remote Control

XARS12D18H (ZART12D + ZARB18H)



XARS12D18H

Description Characteristics Catalog Number Speical Functions Connection XARS8L12W (ZART8L + ZARB12W) — Industrial plug XARS8L12H (ZART8L + ZARB12H) Complete unit without charger device Wiring XARS8D18W (ZART8D + ZARB18W) Limiter protection Movement monitoring Industrial plug (ZART8D + ZARB18H) XARS8D18H (ZART8D + ZARB18H) Wiring XARS12D18W (ZART12D + ZARB18W)

Industrial plug

Schneider Electric

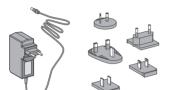
Wireless Remote Control System

Refer to Catalog **DIA5ED2140103EN**





Description	Components	Catalog Numbers
	ZART8L + ZARB12W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8L12W
	ZART8L + ZARB12H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8L12H
Starting kit comprising of Remote control system +	ZART8D + ZARB18W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8D18W
Starting kit comprising of Remote control system + accessories + USB/RJ45 cable + Configuration software	ZART8D + ZARB18H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK8D18H
	ZART12D + ZARB18W + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK12D18W
	ZART12D + ZARB18H + ZARC01 + ZARC02 + TCSMCNAM3M002P	XARSK12D18H



ZARC01



ZARC02



ZARC04



ZARC07



Table 19.385: Accessories

Description	Characteristics	Catalog Number
Charger for remote device	∼100–240 V power supply	ZARC01
Shoulder belt for remote device	2 m / 6.56 ft length	ZARC02
External antenna for Base station [1]	with 2 m / 6.56 ft cable and bracket included	ZARC03
Holder for remote device	104 x 239 mm / 4.09 x 9.41 in.	ZARC04
Connector plug female	with cable 1.5 m / 4.92 ft	ZARC05
Cable gland kit with wire grommets	1 x M25 + 1 x M20	ZARC06
Kit for adhesive labels for remote device	in Black and White	ZARC07
Kit for adhesive labels for remote device and crane equipment	Multi color	ZARC08
Mounting kit	Silent block + magnet and metal support	ZARC09
Connector plug (female)	with cable 3 m / 9.84 ft	ZARC12
Connector plug (female)	with cable 5 m /16.40 ft	ZARC18
Connector cable	USB to RJ45	TCSMCNAM3M002F

Type BW Pendant Stations

Refer to Catalog 9001CT1001



Type BW Pendant Stations and Accessories

This pre-assembled, two-button station now comes complete with internal and external strain relief. Oversized finger grips on the rear of the enclosure make it easy to grip and operate.

- · Well suited for standard hoist applications
- · Push button legend inserts
- Field-installable mushroom button
- · Full cover gasket, to exclude harmful contaminants

Table 19.386: BW90 and BW100 Pendant Stations - with cord connector and strain relief

Description		Logand Incort	egend Insert Mechanical arkings Interlock	Enclosure Color		Contact	Replacement Interior [2]		
		Markings		Yellow	Black	Red	Symbol	9001 Type	Contact Symbol
2		Up-Down	Yes	BW92Y	BW92B	BW92R	146	BOC368	146
•		Forward-Reverse	Yes	BW93Y	BW93B	BW93R	146	BOC368	146
3		On-Off [3]	Yes	BW94Y	BW94B	BW94R	10	BOC358	147
Single Speed	Start-Stop	No	BW95Y	BW95B	BW95R	145	BOC359	25	
	Start-Stop [3]	Yes	BW96Y	BW96B	BW96R	10	BOC358	147	
	Sirigle Speed	On-Off [3]	No	BW97Y	BW97B	BW97R	146	BOC359	25
	Up-Down	Yes	BW98Y	BW98B	_	100	I	_	
		without Inserts	Yes	BW90YU	BW90BU	BW90RU	147	BOC366	25
		without Inserts	No	BW91YU	BW91BU	BW91RU	25	BOC359	25
		without Inserts [3]	Yes	BW94YU	BW94BU	BW94RU	147	BOC358	147
	Two Speed	without Inserts	Yes	BW100YU	BW100BU	BW100RU	150	BOC367	150
BW90 / BW100	Two Speed	Up-Down	Yes	BW102Y	BW102B	BW102R	150	BOC367	150

Table 19.387: Hanger Brackets

		_
Description		Form
V236	External Bracket (cannot be field installed)	Y236

Table 19.388: Strain Relief Replacement

	Description	
BWSR	Strain Relief Replacement	BWSR

Table 19.389: Interchangeable Legend Inserts for Type BW Pendant Stations[4]

Marking	Туре
Start	B259
Stop	B260
Forward	B255
Reverse	B256
Open	B263
Close	B264
Raise	B261
Lower	B262
Up	B253
Down	B254
On	B257
Off	B258
Blank - black	B251
Blank - red	B252

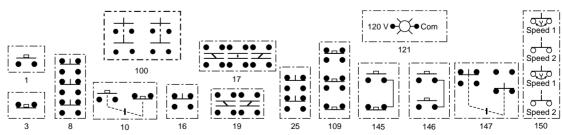
Table 19.390: Replacement Enclosures

Description	Color	Туре
D 40	Yellow	BWRY
Box & Cover with 4 screws	Red	BWRR
Willi 4 Sciews	Black	BWRB

Table 19.391: Electrical Contact Ratings [5]

AC—NEMA B600								DC-NEMA P	600
			Induc 35% Powe			Resistive 75% Power Factor		Inductive	and Resistive
Volts	Ma	ike	Break Continuous			Make, Break and	Volts	Make and Break	Continuous
	Α	VA	Α	VA	Carrying Amperes	Continuous Carrying Amperes		Amperes	Carrying Amperes
120 240	30.5	3600 3600	3.75	360 360	5	5	120	1.1	5
480	15 7.5	3600	1.5 .75	360	5	5	240 600	0.55 0.2	5
600	6	3600	.6	360	5	5	000	0.2	<u> </u>

Contact Symbols (Type BW Pendant Staions)



^[2] Includes gasket

Maintained Contact

^[3] [4] [5] Order must specify a quantity of 10 or multiples of 10.

OSHA Regulation, Section 1910.70, Overhead and Gantry Cranes, limits the voltage of pendant push buttons to 150 Vac or 300 Vdc.



XAC Standard Duty Pistol Grips, Enclosures, Contact Blocks

Refer to Catalog 9001CT1001

XAC Pistol Grip Stations and General Purpose Pendants

XAC pendant stations are designed for standard- or medium-duty control circuit applications.

- Single- or two-speed versions
- Double insulated
- · Shock and corrosion resistant
- 2, 4, 6, 8, 12 element versions
- · Ease of operation

Table 19.392: Pistol Grip Stations

Description	ription Speeds Function		ction	Catalog Number	
Description	Speeds	1 speed	2 speed	Catalog Number	
1 N.O. contact per operator 2 Mechanically interlocked operators	1	†		XACA201 [6]	
2 N.O. (staggered) contacts per operator 2 Mechanically interlocked operators	2		\$	XACA207 [6]	
1 N.O. + 1 N.C. 2 Mechanically interlocked operators	1	†		XACA205 [6]	
N.O. contact per direction Mechanically interlocked 2 way toggle	1	*		XACD21A0101 [7]	
1 N.O. + 1 N.O. staggered 1 Mechanically interlocked 2 way toggle	2		, The state of the	XACD21A1231[7]	
1 N.O. & 1 N.C. contact per direction 1 Mechanically interlocked 2 way toggle	1	*		XACD21A0105 [7]	
1 N.C. + 1 N.O. + 1 N.O. staggered 1 Mechanically interlocked 2 way toggle	2		Ĭ	XACD21A1241 [7]	

NOTE: Legends are required to achieve NEMA4 rating.

Table 19.393: General Purpose Pendants[8][9]

Enclosures	Catalog Number
2 hole enclosure	XACA02H7
3 hole enclosure	XACA03H7
4 hole enclosure	XACA04H7
6 hole enclosure	XACA06H7
8 hole enclosure	XACA08H7
12 hole enclosure	XACA12H7

To place a custom pendant order, use the worksheet Type XACA Worksheet, page 19-139 as a guide. Orders must be placed through the Product Selector in Quote to Cash. There is a 10% charge for assembly.







XACA03 with operators







XFNG37

XAC Contact Blocks

Table 19.394: Contact Blocks for Operators in Cover

Description	Wiring Diagram	Catalog Number
1 N.O./spring return/1 speed	_	ZB2BE101
1 N.C./spring return/1 speed	_	ZB2BE102
1 N.O. early close & 1 N.C. & 1 N.O./spring return/2 speed	Figure 1	XENG1191
1 N.C. & 2 N.O./spring return/1 speed	Figure 2	XENG1491
1 N.O. & 1 N.O. latching/1 speed/interlocked	Figure 3	XENG3781
1 N.O. & 1 N.C. latching/1 speed/interlocked	Figure 4	XENG3791
3 N.C.—all (1) direct acting	Figure 5	XENT1192

^[6] These units are available with factory installed E-stops. Add a "3" to the end of the catalog number for standard E-stop or add a "4" for a trigger action E-stop.

^[7] These units are available with a factory installed E-stop. Use XACD22 ••• for a standard E-stop or XACD24••• for a trigger action E-stop.

^[8] Standard enclosures include internal mounting plate, cable sleeve for 8 to 26 mm, internal cable clamp, suspension ring and cable tie.

For ordering information on custom built XACA pendants, visit our website at www.Schneider-Electric.us.

XAC Standard Duty Pistol Grips, Enclosures, Contact Blocks

Refer to Catalog 9001CT1001



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Table 19.395: Contact Blocks for Operators in Base of Enclosure [10]

Description	Catalog Number
1 N.O./1 speed	XACS101
1 N.C./1 speed	XACS102
2 N.O./1 speed	XACS103
2 N.C./1 speed	XACS104
1 N.O. & 1 N.C./1 speed	XACS105

Wiring Diagrams

130	└ └ ○14 └ ○22		
330	O34		
Figure 1			





Figure 3



Figure 4

N/C + N/C + N/Cwith positive opening operation



XAC Operators and Accessories

Table 19.396: Operators [11]

Description	Color	Catalog Number
Booted push button	White	XACA9411
	Black	XACA9412
	Green	XACA9413
	Red	XACA9414
	Yellow	XACA9415
	Blue	XACA9416
	Brown	XACA9419

Table 19.397: Mushroom Operators

Description	Mushroom Size	Color	Catalog Number
Mushroom head, push to maintain/turn-to-	30 mm	Red	ZA2BS834
release (trigger action)[12]	40 mm	Red	ZA2BS844
Mushroom head, push to maintain/key turn-to- release (trigger action)[12]	40 mm	Red	ZA2BS944

Table 19.398: Selector Switches and Wobble Stick

Description	Color	Catalog Number
Selector switch/2 position—maintained[13]	Black	ZA2BD2
Selector switch/3 position—maintained[13]	Black	ZA2BD3
Selector switch/2 position—maintained key operated—key removal from LT or RT position[13]	NA	ZA2BG4
Selector switch/3 position—maintained key operated—key removal from LT or RT position[13]	NA	ZA2BG5
Wobble stick (bottom mounting recommended)	Black	ZA2BB2

Table 19.399: Pilot Light Components

Description	Color	Catalog Number
Direct supply base/without lamp (for 6 to 120 V applications) (AC/DC) [14]	ı	ZB2BV006



Booted Push Button



Mushroom Head





Selector Switch

Selector Switch (key operated)



Wobble Stick

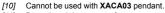












[11]

Booted push buttons are for cover mounting only. All other operators can be mounted on cover or bottom.

Trigger action mushroom heads are tamper proof in that a change of contact state is not possible by teasing or floating the operator. [12]

[13] Not for use with XENG contact blocks.

[14] see Table 19.401 Lamps, BA9s Base, page 19-137 and Table 19.402 LED, BA9s Base, page 19-137.



XAC Standard Duty Pistol Grips, Enclosures, Contact Blocks

Refer to Catalog 9001CT1001





Table 19.400: Enclosure Accessories

Description	Catalog Number
Blank hole plug	ZB2SZ3
Mechanical interlock (momentary). For use with XAC booted operators only	XACA009
Screw adapter for self-supporting cable	XACB961
Low suspension ring for single row station	XACA971
Protective guard for bottom mounted mushroom head	XACA982
Protective guard for bottom mounted selector switch or key switch	XACA983

Table 19.401: Lamps, BA9s Base

Туре	Voltage	Watts	Catalog Number
Replacement bulbs (Type BA9s) Incandescent	6 Vac/Vdc	1.2	DL1CB006
	12 Vac/Vdc	2.0	DL1CE012
	24 Vac/Vdc	2.0	DL1CE024
	48 Vac/Vdc	2.4	DL1CE048
	130 Vac/Vdc	2.6	DL1CE130

Table 19.402: LED, BA9s Base

Туре	Color	Voltage	Catalog Number
	Green	6 Vac/Vdc	DL1CJUS0063
	Red	6 Vac/Vdc	DL1CJUS0064
	Amber	6 Vac/Vdc	DL1CJUS0065
LED DAGs been for	Green	24 Vac/Vdc	DL1CJUS0243
	Red	24 Vac/Vdc	DL1CJUS0244
LED, BA9s base for Direct Supply blocks	Amber	24 Vac/Vdc	DL1CJUS0245
Birect Supply Blooks	White	24 Vac/Vdc	DL1CJUS0241
	Blue	24 Vac/Vdc	DL1CJUS0246
	Green	120 Vac/Vdc	DL1CJUS1203
	Red	120 Vac/Vdc	DL1CJUS1204
	Amber	120 Vac/Vdc	DL1CJUS1205

Table 19.403: PVC Standard Legend Plates 30 x 40 mm

Schneider Electric
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Text[15]	Catalog Number	Text[15]	Catalog Number	Text[15]	Catalog Number
Bridge Forward	ZB2BY2343	Left	ZB2BY2310	Stop	ZB2BY2304
Bridge Reverse	ZB2BY2344	Low	ZB2BY2336	Stop Start	ZB2BY2366
Close	ZB2BY2314	Lower	ZB2BY2337	Trolley Right	ZB2BY2345
Down	ZB2BY2308	Man Auto	ZB2BY2372	Trolley Left	ZB2BY2346
Emergency Stop	ZB2BY2330	Off	ZB2BY2312	Up	ZB2BY2307
Fast	ZB2BY2328	On	ZB2BY2311	Up Down	ZB2BY2370
Forward	ZB2BY2305	Off On	ZB2BY2367	Up-O-Down	ZB2BY2389
For Rev	ZB2BY2371	Open	ZB2BY2313	North	6516002379
For-O-Rev	ZB2BY2384	Open Close	ZB2BY2376	South	6516002380
Hand Off Auto	ZB2BY2387	Open-O-Close	ZB2BY2388	East	6516002381
High	ZB2BY2338	Out	ZB2BY2339	West	6516002382
High Low	ZB2BY2369	Power On	ZB2BY2326		
Hoist Down	ZB2BY2342	Raise	ZB2BY2335		
Hoist Up	ZB2BY2341	Reset[15]	ZB2BY2323		
In	ZB2BY2503	Reverse	ZB2BY2306		
Inch	ZB2BY2321	Right	ZB2BY2309		
Jog For	ZB2BY2381	Run	ZB2BY2334		
Jog Rev	ZB2BY2380	Slow	ZB2BY2327		
Jog Run	ZB2BY2365	Start	ZB2BY2303		

Туре	Description	Background Color	Catalog Number
PVC blank legend	Blank	Black or red background—30 mm x 40 mm	ZB2BY2101
PVC blank legend	Blank	Yellow or white background—30 mm x 40 mm	ZB2BY4101
PVC custom engraved	Special engraving[16] Special engraving[16]	Black background, white letters—30 mm x 40 mm White background, black letters—30 mm x 40 mm	ZB2BY2002 ZB2BY4001

^[15] All nameplates are black with white lettering except "Stop", "Emergency Stop" and "Reset" which are red with white lettering. For black "Reset" change final digit of catalog number to 2.

19-139



1234567891011

Type XACA Worksheet Refer to Catalog 9001CT1001

Type XACA Worksheet

Use this worksheet to assist in component selection. Custom orders for XACA pendant stations must be placed through the Product Selector in Quote to Cash. There is a 10% charge for assembly.

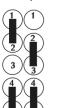
XACA Order Guide Instructions

Custom built pendant stations

- 1. Determine the number of operators needed, then choose an enclosure with a corresponding number of holes.
- Select the type of operator, contact block, and appropriate nameplate for each function required.
- 3. Check for special functions that may be required. These items could include mechanical interlocks, adapters for self-supporting cable, lower support rings, protective guards, etc.

	Catalog number of enclosure	XACA		
Functions (optional)	Mechanical interlock (draw a vertical line between the 2 units to be interlocked ♠)	Legends	Contact blocks and pilot light bodies	Push button Pilot light or Blanking plug
	1			-
	2			
	3			
	4			
	5			
	6			1
	7			
	8			1
	9			
	10			
	11			
	12			

Mechanical Interlock (XACA009)







Impossible Combinations

Attachments

Position	Туре	Catalog No.
14	Adapters for self-supporting cable type BBAP (available only with cable sleeve Ø8–26 mm)	XACB961
15	Lower support ring	XACA971
16	Protective guard for base mounted selector switch or 40 mm emergency-stop push button	XACA982
17	Protective guard for key switch	XACA983

Unit mounted in baseoof station (facing downwards) 13





Hanger bracket (Part no. 65091-061-01) Threaded conduit hole Space for toggle switch, a type SK operator or pilot light. Use appropriate legend plates. Type SKRU1 through SKRU11 operators, Any Type SK pilot light or operator can be mounted in this enclosure. The enclosure depth will accommodate 1 Type KA1 thru KA6 (total of 2) contact blocks. Type SKN2 legend plate

Class 9001 SK push-to-test pilot lights and remote test pilot lights will not fit in these enclosures.

Pendant Station Application and Ordering Information

This line of pendant stations consists of polymeric enclosures (2 through 10 units), push button units (1 through 5 speed) and laminated legend plates. All enclosures have an extra single unit space near the top which permits the installation of a toggle switch, a Type SK operator or pilot light, or a warning label. All enclosures come with a stainless steel hanger bracket and internal strain relief post. Enclosures are yellow and have a threaded opening in the top.

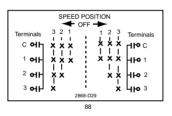
Table 19.404: Enclosure Catalog Numbers

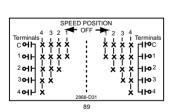
Number of Buttons	Conduit Entrance Size	Enclosure Only [17]	Enclosure for Assembled Station [18]
		Catalog Number	Catalog Number
2	3/4"-14 NPT	SKYP2	SKYP20
4	3/4"-14 NPT	SKYP4	SKYP40
6	1"-111/2 NPT	SKYP6	SKYP60
8	11/4"-111/2 NPT	SKYP8	SKYP80
10	11/4"-111/2 NPT	SKYP10	SKYP100

Table 19.405: Push Button Units

10	Number of Buttons per Unit	Description	Contact Symbol	Catalog Number [19]
	2	Single Speed – Momentary Interlocked	7	SKRU1[20]
	2	Single Speed – Momentary Non- Interlocked	5	SKRU10[20]
	2	Single Speed – Maintained Interlock	10	SKRU11[20]
	2	Two Speed –Momentary Interlocked	87	SKRU2[21]
	2	Three Speed – Momentary Interlocked	88	SKRU3[21]
	2	Four Speed – Momentary Interlocked	89	SKRU4[21]
	2	Five Speed –Momentary Interlocked	90	SKRU5[21]

SPEED POSITION **⊣**⊢ос сонь H⊷₁ 2868-D30 87





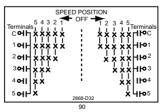


Table 19.406: Legend Plate Catalog Numbers

	Where Used	Marketing	Catalog Number
HO O O W N	For SKRU1 through SKRU11	Blank-Blank Hoist: Up-Down Trolley: East-West Trolley: FwdRev. Trolley: North-South Bridge: FwdRev. Bridge: East-West Bridge: North-South Start-Stop Reset-Stop Aux Hoist: Up-Down Power: On-Off Specify Marking	SKN200/22/ SKN201 SKN202 SKN203 SKN204 SKN205 SKN206 SKN207 SKN208 SKN209 SKN210 SKN211
off @ ax	With toggle switch	Blank Off-On On-Off	SKN500 [24] SKN544 [24] SKN545 [24]
	[23]in top space of enclosure	Specify Marking	SKN599 [24]
With 9001SK [25] operator or pilot light in top space of	Blank On Off Emerg. Stop Run Power On Off-On	SKN100 [26] SKN103 SKN104 SKN105 SKN124 SKN138 SKN144	
	enclosure	Specify Marking	SKN199 [26]

Figure 19.1: Multispeed Contact Symbols (X = Contact Closed)

Table 19.407: Closing Plate Catalog Number



Figure 19.2: Single Speed Contact Symbols

- [17] Class 9001 SK push-to-test pilot lights and remote test pilot lights will not fit in these enclosures.
- [18] Assembled pendant stations consist of an enclosure, operators and legend plates. All custom orders must include the pendant key sheet. See Type XACA Worksheet, page 19-139.
- [19] Types SKRU 1, 10 and 11 use Type KA contact blocks. Types SKRU 2 thru 5 are factory enclosed contact blocks
- [20] Boot part number is 9001KU1.
- [21] Boot part number is 9001KU37
- [22] 19 characters each side max
- Can be supplied by Square D as Class 9001 Type SKSTS1- includes boot for NEMA Type 4X. [23]
- Includes legend plate, gasket and ground plate to be used with toggle switch. See 9001SK, page 19-87through page 19-94 *[24]*
- [25]
- [26] Tri-laminated legend plate having a yellow or red background on a black core.

Space for toggle switch ①, a Type SK opera-

tor or pilot light,

or a warning la-bel. Use SKN-5

or SKN-1 leg-

end plates.

Schneider

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Application and Ordering Information

Refer to Catalog 9001CT1001

Type SKYP Worksheet



Use of this work is based to assist common concentrated earlier. PSKN Rolf Of Patentin Pendeen thought esplayed through the Producte Selector On Quote to IC 3 stere There 0% a 112 % obcarse not assembly.

TYPE NUMBER KEY-

1 SKRU1

2 SKN201

Class 9001

When operator and legend plate

use 2 adjacent holes - specify

same in both locations. Example:

Type SKYP -

A)

B)

C)

___A)

B) C)

A)

B)

C)

- Operator or Closing Plate. Example - SKRU1
- Legend Plate Type Number Example - SKN201
- 3. Legend Plate Marking ▲ - Used Only if Special Marking is Required Example:

Line 2 - SKN299

Line 3 - A.) Hoist

B.) FWD

C.) REV

ENCLOSURES - NEMA 4X, 13

Size	Conduit Entrance Size	Enclosure for Assembled Station ▲
	Size	Catalog Number
2 Button	³ / ₄ " -14 NPT	SKYP20
4 Button	³ / ₄ " -14 NPT	SKYP40
6 Button	1" -14 NPT	SKYP60
8 Button	1 ¹ / ₄ " -11 ¹ / ₂	SKYP80
10 Button	11/4" -11 1/2	SKYP100

[▲] Assembled pendant stations consist of an enclosure, operators, and legend plates.

PUSH BUTTON UNITS - NEMA / UL 4X, 13

Number of Buttons per Unit	Description	Contact Symbol	Туре
2	Single Speed - Momentary Interlocked	7	SKRU1
2	Single Speed - Momentary Non-Interlocked	5	SKRU10
2	Single Speed - Maintained Interlocked	10	SKRU11
2	Two Speed - Momentary Interlocked	87	SKRU2
2	Three Speed - Momentary Interlocked	88	SKRU3
2	Four Speed - Momentary Interlocked	89	SKRU4
2	Five Speed - Momentary Interlocked	90	SKRU5

CLOSING PLATE

Туре	
SK52	

The price of the total station consists of the price of each individual component plus a 10% charge for assembly.



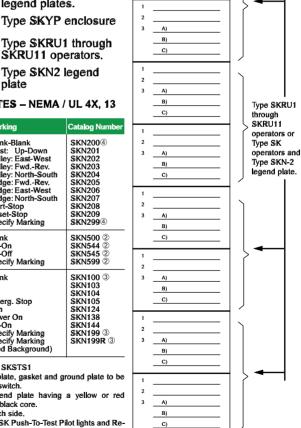
hole

Space for toggle switch ①, a Type SK operator or pilot light or a warning label. Use SKN5 or SKN1 legend plates. Type SKYP enclosure Type SKRU1 through SKRU11 operators.

LEGENID PLATES - NEMA / UL 4X, 13

Where Used	Marking	Catalog Numbe
For SKRU1 through SKRU11	Blank-Blank Hoist: Up-Down Trolley: East-West Trolley: FwdRev. Trolley: North-South Bridge: FwdRev. Bridge: East-West Bridge: North-South Start-Stop Reset-Stop Specify Marking	SKN200⊕ SKN201 SKN202 SKN203 SKN203 SKN204 SKN205 SKN206 SKN207 SKN208 SKN209 SKN209
With Toggle Switch ① in Top Space of Enclosure	Blank Off-On On-Off Specify Marking	SKN500 ② SKN544 ② SKN545 ② SKN599 ②
With Type SK Operator ▲ or Pilot Light in Top Space of Enclosure	Blank On Off Emerg. Stop Run Power On Off-On Specify Marking Specify Marking (Red Background)	SKN100 ③ SKN103 SKN104 SKN105 SKN124 SKN138 SKN144 SKN199 ③ SKN199R ③

- 2 Includes legend plate, gasket and ground plate to be used with toggle switch
- 3 Tri-laminated legend plate having a yellow or red background on a black core.
- 4 19 characters each side.
- ▲ Class 9001 Type SK Push-To-Test Pilot lights and Remote Test Pilot lights will not fit in these enclosures.





Heavy Duty Industrial Foot Switches-Oiltight, Watertight, Dusttight and Driptight Enclosure, NEMA 2, 4 and 13





Type AW Foot Switch with Top Pedal Shield and Side Shields

AW132 Type AW with Oversized Pedal Shield and Side Shields



AW117 Type AW with Oversized Pedal Shield, Side Shields and Safety Door



Type AW Foot Switch without Pedal Shield



AW124 Type AW Fully Shielded Foot Switch with Oversized Pedal Shield, Side Shields and Safety **Door.** The Safety Door is interlocked with the pedal to prevent operation due to shock or vibration. It prevents accidental pedal operation by requiring a simple but intentional motion to lift the door before inserting the foot.

Operating Temperature: -30 to +60 °C (-22 to +140 °F)

Table 19.408: Foot Swi	ch Catalog Numbers [1]				
Description	Features	Fully Shielded with Oversized Pedal Shield, Side Shields and Safety Door	With Oversized Pedal Shield and Side Shields	With Pedal Shield and Side Shields	UNSHIELDED (See Warning note[2])
		Catalog Number	Catalog Number	Catalog Number	Catalog Number
Single Pole[3] Double Throw	Spring Return With Mechanical Latch	AW117	AW132	AW2 AW7	AW1 —
Two Pole [3] Double Throw	Spring Return With Mechanical Latch	AW124 [4]	AW133	AW14 AW15	AW13
Two Stage [3] (One Pole Each Stage) Table 1	Spring Return With Mechanical Latch in 1st Stage With Mechanical Latch in 2nd Stage	AW119	AW134 	AW6 AW9 AW10	AW5
Four Stage [3] (One Pole Each Stage) Table 2	Spring Return	AW123	_	AW22	AW21

When ordering, add prefix "9002" to the catalog number.

A DANGER

HAZARDOUS APPLICATIONS

Do not use foot switches on machines without point-of-operation protection.

Failure to follow these instructions will result in death, serious injury, or equipment damage.

Foot Switch Selection

Foot switches are used to control many industrial processes, while leaving the operator's hands free to perform other functions. The type or model of foot switch suitable for each application will vary depending on factors such as the control function required, degree of protection required, production methods, unusual conditions, government regulations, etc. In some applications more than one foot switch may be required, as when two or more persons are operating a machine. In these cases, safe practice and regulations require that the foot switches be wired in series making it necessary that each operator's foot switch be actuated before the machine will cycle.

Only the user can be aware of all the conditions and factors present during setup, operation and maintenance of the machine; therefore, only the user can determine which foot switch(es) can be properly used. When selecting a foot switch for a particular application, the user should refer to the applicable ANSI standards and OSHA regulations. The National Safety Council's Accident Prevention Manual also provides much useful information.

In some applications, such as power presses, additional operator protection such as point-of-operation guarding must be provided when a foot switch is used as an actuator. This is necessary since the operator's hands and other parts of the body are free to enter the pinch point area and serious injury can occur. The shielding provided on foot switches cannot protect an operator from injury. For this reason the foot switch cannot be substituted for or take the place of point-of-operation protection.

A Trilingual Danger Sign regarding the need for point-of-operation protection is supplied with each foot switch. The sign incorporates three languages: English, Spanish and French. Additional copies of the sign are available by contacting your Square D sales

WARNING: These foot switches must not be used to operate machines or equipment where the possibility of operator injury exists. Typical uses include Emergency Stop functions, "Dead Man" controls, signal functions (lights, bells, etc.).

^[3] A single pole snap switch that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity. A double pole snap switch contains two electrically separated sets of contact elements allowing use on circuits of opposite polarity. Each set that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity

^{[41} 2 N.O. and 2 N.C. isolated, direct acting contacts



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9002A Heavy Duty Industrial Class 9002

Table 19.408 Foot Switch Catalog Numbers [19.408] (cont'd.)

Description	Features	Fully Shielded with Oversized Pedal Shield, Side Shields and Safety Door	With Oversized Pedal Shield and Side Shields	With Pedal Shield and Side Shields	UNSHIELDED (See Warning note[5])	
		Catalog Number	Catalog Number	Catalog Number	Catalog Number	
Single Pole Single Throw	Maintained Contact—Push On/Push Off	-	ı	AW12	AW11	
Replacement Cover Assembly	_	AC5	AC7	AC8 [6]	AC1	





For **replacement parts** for Class 9002 Type AW: See instruction bulletin 65013-010-31.

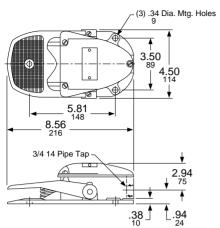
Also see Table 19.410 Contact Symbol—Two Stage, page 19-144 and Table 19.411 Contact Symbol—Four Stage, page 19-144.

WARNING: These foot switches must not be used to operate machines or equipment where the possibility of operator injury exists. Typical uses include Emergency Stop functions, "Dead Man" controls, signal functions (lights, bells, etc.). [5]

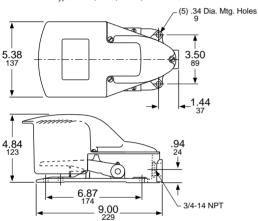
For replacement cover drilled to accept latch. For Series C foot switches order AC9. No replacement cover available for Series A or B devices drilled to accept latch. AC8 is spring return [6]



Approximate Dimensions



Types AW1, AW5, AW11, AW13 and AW21



Types AW2, AW6, AW12, AW14 and AW22

Dual Dimensions: INCHES
Millimeters

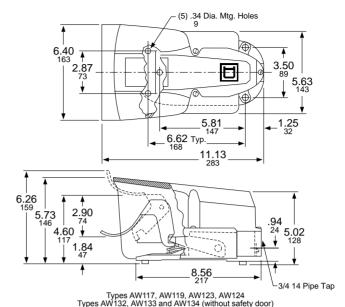


Table 19.409: Maximum Current Ratings For Control Circuit Contacts

			AC Amp	eres			DC Amp	eres			
Type	Volts	Inductiv 35% Pov Factor		Resistive 75% Power Factor	Volts	Inductive and Resistive					
Type	VOILS			Make,	VOILS	Make ar	nd Break				
		Make	Break	Break and Continuous		Single Throw	Double Throw	Continuous			
AW1 through AW10, AW117, AW119, AW132	120 240 480 600	40 20 10 8	15 10 6 5	15 10 6 5	125 250 600	2.0 0.5 0.1	0.5 0.2 0.02	15 15 15			
AW13, AW14, AW15, AW133	120 240 480 600	30 15 7.5 6	3 3 1.5 1.5 0.75 0.75 0.6 0.6		125 250 600	1.0 0.3 0.1	0.2 0.1 —	10 10 10 —			
AW11, AW12	115 230	36 18	6 3	_	125 250	2.2 1.1	_				
AW21, AW22, AW123	120 240 480 600	15.0 7.5 3.75 3.0	1.5 0.75 0.375 0.3	10 10 10 10				_ _ _			
AW124	120 240 480 600	60 30 15 12	6 3 1.5 1.2	10 10 10 10	120 240 600	1.1 0.55 0.2	=	10 10 10			

NOTE: Double throw switches are rated 250 Vdc maximum.

Table 19.410: Contact Symbol—Two Stage

Snap	Switch		Pedal								
Unit	Circuit	Up	Half Down	Full Down							
4	A1	0	1	1							
1	B1	1	0	0							
2	A2	1	1	0							
2	B2	0	0	1							

NOTE: 0 = Open 1 = Closed

Table 19.411: Contact Symbol—Four Stage

	•	Ū												
S	Snap Switch			Pedal Position										
Unit	Circuit		Up → Down											
	1A1	0	0	1	1	1								
1	1B1	1	1	0	0	0								
	2A1	0	1	1	1	1								
	2B1	1 0 0	0	0	0									
	1A2	1	1	1	0	0								
•	1B2	0	0	0	1	1								
2	2A2	1	1	1	1	0								
	2B2	0	0	0	0	1								



K2 Custom and K30–K150 Power Switching

Class 9003

Type K Rotary Cam Switches

Applications		Used in building control panels and constant and direct control for simple machines.	oles, Type K cam sv	vitches allow contr	ol of processes an	Used in building control panels and consoles, Type K cam switches allow control of processes and utilities in industry and buildings, and direct control for simple machines.												
	Off-On/On-Off switches	1 to 6-pole	1 to 6-pole															
	Stepping switches	2 to 12-position, 1 to 4-pole	_															
	Changeover switches	1 to 5-pole																
Functions	Measurement switches	Voltmeter and ammeter	<u> </u>															
runctions	Reversing switches	2 and 3-pole 2 and 3-pole																
	Reversing star-delta switches	Star-delta	Star-delta															
	Pole change switches	2 and 3-speed	2-speed															
Conventional	rated thermal current (Ith)	20 A	32 A	50 A	63 A	115 A	150 A											
		690 V	690 V	690 V	690 V	690 V	690 V											
		AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase	AC-3 - 3-phase											
Electrical operating characteristics		230 V - 2.2 kW - 8.3 A	230 V - 5.5 kW	230 V - 7.5 kW	230 V - kW	230 V - 5 kW	230 V - 22 kW											
		AC - 15	AC - 15	AC - 15	_	_	_											
		230 V - 4 A	230 V - 14 A	230 V - 6 A														
Front plate de	egree of protection	IP 40 IP 65 (with seal)	IP 40															
Product Com	position	Complete switches and custom Adaptable sub-assemblies	Complete switche	S														
Compatibility		Ø 22 control and signalling units	1_															
Compatibility		Multi-fixing				1												
	Front Mounting	Single Ø 22 hole	By 4 holes on 48 mm centers By 4 holes on 68 mm centers															
Mounting	Rear Mounting	Screw fixing, 4 holes on 36 mm centers	Screw fixing, 4 ho	les on 48 mm cente	rs	Screw fixing, 4 ho	les on 68 mm											
	· · · · · ·	45 x 45	•			centers												
Front plate di	mensions (mm)	60 x 60 (adaptable sub-assemblies)	64 x 64			88 x 88												
		Black and red standard and long handles																
		Key operator																
Operating hea	ads	Metallic head	 Black standard ha Metallic legend, bl 															
		Metallic legend with black marking or	ivietallic legeriu, bi	ack marking														
		black legend with white marking																
		UL-CSA																
Approvals		EN/IEC 60947-3	cULus EN/IEC 60947-3															
		EN/IEC 60947-5-1	LIV/IEC 00947-3															
Гуре		Type K2	Type K30–K150															
Cam switch n	nodel [1]	Class 9003, K2	K30	K50	K63	K115	K150											

Instructions for 9003K2 Key Sheet

The Key Sheet for ordering a 9003K2 cam switch is on page 19-146, and an example of a completed key sheet is on page 19-147. The instructions below are for filling out the key sheet on page 19-146.

- 1. Select the box for K2 (20 A).
- 2. Identify the Product quantity in the box provided.
- 3. Verify front mounting by selecting the box: Front Mounting.
- 4. If ordering a base/contact block only, select 22 mm plastic or 22 mm metal mounting. Then complete the following:
 - a. 3 Switching Angle (positions)
 - b. ④ Contact scheme and jumpers (pre-wired)
- 5. If ordering a complete switch (base/contact block, head, legend), check the box. Then complete the following:
 - a. ① Operating head preference
 - ② Legend preference
 - c. 3 Switching angle (positions)
 - d. 4 Contact scheme and jumpers (pre-wired)
- 6. Operating head preference ① (identify the operating head preferred)
- 7. Legend preference ② (identify the legend preference)
- 8. Switching angle (positions) 3 and special legend marking
 - a. Identify whether the switch need is 30° or 60°, or 45° or 90° switching angle.
 - b. Fill in the legend markings desired at the positions indicated. Zero degrees is always straight up.
- 9. The rotation of the operator stops clockwise at the top or 0° position. If full rotation through 360° is desired, the Full rotation through 360° box must be checked.
- 10. Contact scheme and jumpers (pre-wired) ④
 - a. If jumpers are desired to be pre-wired, draw a horizontal line between the terminals to be jumpered per the example on page 19-147.
 - b. Refer to the Legend at the bottom of page 19-146 for contact sequences, i.e.: X indicates contact closure. See page 19-147 for examples of filling in this portion of the key sheet.

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Address															22 pl	- 1			Ø 22 m	netal:	
										Complete: 3 4											
Delivery	instruction	ns:							•	Complete switch (base/contact block, head, legend) Complete: 1 2 3 4											
Product refe	erence:											For 2	22 mr			ountin					
Туре :	K									1	Opera	ting hea	ad refer	ence:		9003	3K				
③ Swi	itching angl)						2	Legen	d refere						900	3KZ.		
_	0° or 60°					45	° or 9	90°				or fo	r mou	nting	with r	netal l	<u>oase:</u>				
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Fill in with text

Check the box to confirm selection

Schneider Electric

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Application and Ordering Information

Class 9003

9003K2 Cam Switch Order Form—Example

Order No	Order No. Date:										9003K2 (20 A): X										
Agency:					Date	:			-	Prod	duct			4	Fro	nt mo	untir	na			X
Branch:									-		ntity			1				.9			
Custome									_	Base/contact block only (no operating head):											
Address:									-						∛22 pla		\Box_{c}	_	⊘ 22 m	etal:	
									_	Complete: (3) (4)											
Delivery	instruction	s:								Complete switch (base/contact block, head, legend) Complete: 1 2 3 4									X		
Product refe															stic m	ountin			_		
Type :	K											-	ad refer	ence:		9003	KAC	1			
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