

c3controls offers the best selection of illuminated and non-illuminated push buttons and selector switches on the market today. We also have a full line of unibody and modular pilot lights, all engineered for superior durability and long life. Check out our multi-voltage LED light module that can be operated at any voltage from 20V to 277V AC or DC. Their modular design and easy-to-create assemblies offer convenience in ordering and assembly. Our new line of factory assembled 22mm IEC Compact Control Stations offers the convenience of a single catalog number, shorter control panel bill of material, and easier inventory management.

22MM IEC PILOT DEVICES



- Contact Blocks
- Push Buttons
- Special Operators
- Pilot Lights
- Selector Switches
- Compact Control Stations
- Legend Plates
- Accessories
- Specifications
- Dimensions

PROVEN



Conformity to Standards:

PILOT DEVICES

UL 508
 CSA C22.2 No. 14
 IEC 60947-1, 60947-5-1

Certifications:

UL File #: E68568 (Guide NKCR, NKCR7)
 CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)

ASSEMBLED CONTROL STATIONS

UL 508, 50, 50E
 CSA C22.2 No. 14, 94.2-07
 IEC 60947-5, 60529

UL File #: E68568 (Guide NKCR, NKCR7)
 CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)

ENCLOSURES

UL 50, 50E
 CSA C22.2 No. 94.2-07
 IEC 60529

UL File #: E470986
 CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)

Visit www.c3controls.com to download product certifications.

NOTE: The scope (range, description, price, specifications, dimensions, etc.) of the product featured in this section is subject to change without notice. Refer to www.c3controls.com for product updates.

22MM IEC PILOT DEVICES

c3controls offers a comprehensive line of 22mm IEC Pilot Devices. Each product is designed and manufactured to the needs of the machine builder. Check out all the features of our Series 22 IEC below!

THE MOST INNOVATIVE LINE OF AMERICAN-MADE 22MM IEC PILOT DEVICES.

✓ Proven	Our 22mm IEC operators are UL Listed and CE marked meeting global standards requirements.	
✓ Easy to Install	Our “snap-on” contact blocks are color coded for quick circuit identification and feature 35° angled captive terminal screws and self-lifting pressure plates for fast and easy wiring.	
✓ Quick and Simple	The “spring loaded” latching mechanism enables the user to wire the contact blocks and light modules separate from the operator and outside the confined space of the control panel.	
✓ Low Profile	The 22mm line assumes the lead in the industry with the shortest depth behind the panel of any U.S. manufacturer.	
✓ Rugged Design	Manufactured to be the highest quality—inside and out. With its metal appearance and sleek design, you know you are getting the quality you deserve.	
✓ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the contact blocks for easy reference during installation.	
✓ Flexible	Our contact blocks can be stacked 2 deep and up to 3 across for a total of 6 circuits, providing the flexibility to operate multiple control circuits from a single operator.	
✓ Heavy Duty	Polyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation.	
✓ Convenient	Reduce inventory with our interchangeable modular design, providing endless options for appropriate operator interface.	
✓ Environmentally Secure	With 4/4X and IP66 ratings, our 22mm line of pilot devices are built to last and withstand dust, corrosion, ice, and rain.	
✓ Lifetime Warranty*	Every product is backed by our lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.	
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.	
✓ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.	

*See c3controls Terms & Conditions



c3controls’ 22mm IEC Multi-Voltage Pilot Lights, along with their outstanding customer and delivery services, give us what we need to maintain a competitive edge.



Chris Seiler, General Manager • **Fliteway Technologies**

Momentary Push Button



Illuminated E-Stop



Modular Pilot Light



Illuminated Selector Switch



UNIQUE PRODUCT LINE FEATURES

SHORTER DEPTH



Our compact line saves you valuable space in your control panel with our shorter contact blocks and light modules. We deliver the shortest depth 22mm Pilot Devices made in the USA, exceeding the demands of our customers and the industry.

EN418 EMERGENCY STOP



c3controls' maintained push-twist-release operators meet the global compliance standards for EN418 - *Safety of Machinery*, and they feature a unique trigger action and are available in both non-illuminated and illuminated versions.

EXCLUSIVE MULTI-VOLTAGE LIGHTS



Our non-relampable and relampable multi-voltage light units—the only U.S. manufactured multi-voltage light in the industry!—operate at any voltage from 20V to 277V AC or DC without losing intensity, making them easily interchangeable across multiple applications.

ONE CAM DESIGN



Our single cam design eliminates the need for multiple cam and selector switch configurations, reducing inventory and saving you labor time and costs.

LABOR AND COST SAVINGS



Available in non-illuminated and illuminated versions and in a variety of color options, our dual-push button operators do the work of two operators in one 22.5mm hole, saving time, labor and space.

COMPACT CONTROL STATIONS



Factory assembly of our new 22mm IEC Compact Control Stations provide the convenience of a single catalog number, no assembly required, shorter control panel bill of materials, and easier inventory management.

FIND IT FAST

22mm IEC Pilot Devices


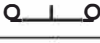
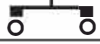

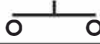
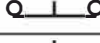




- Certifications
- Specifications
- Dimension Drawings
- Installation Instructions
- Easy to Buy

www.c3controls.com

SELECT YOUR CONTACT BLOCK

MODULAR CONTACT BLOCK CONFIGURATION

CODE	DESCRIPTION	CONTACT SYMBOL	COLOR
SILVER CONTACTS			
WNO	Normally Open Contact Block		Green
WNC	Normally Closed Contact Block		Red
WEM	Early Make Contact Block		White
WDB	Delayed Break Contact Block		Black
GOLD PLATED CONTACTS			
WNOG	Normally Open Contact Block		Green
WNCG	Normally Closed Contact Block		Red
WEMG	Early Make Contact Block		White
WDBG	Delayed Break Contact Block		Black

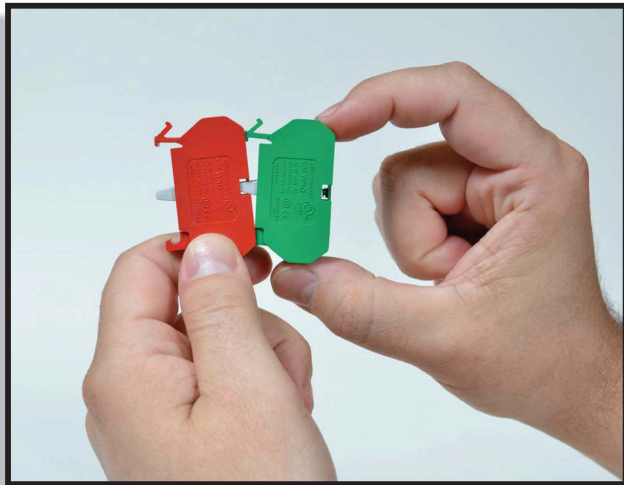
STANDARD RATING DESIGNATIONS

A600 (AC) RATING DESIGNATION

A600 (7,200 VA Make and 720 VA Break),
600V AC Maximum
Maximum Continuous Thermal Current, Ith: 10A

Q600 (DC) RATING DESIGNATION

Q600 (69 VA Make and 69 VA Break),
600V DC Maximum
Maximum Continuous Thermal Current, Ith: 2.5A



Simple, Fast and Time Saving.

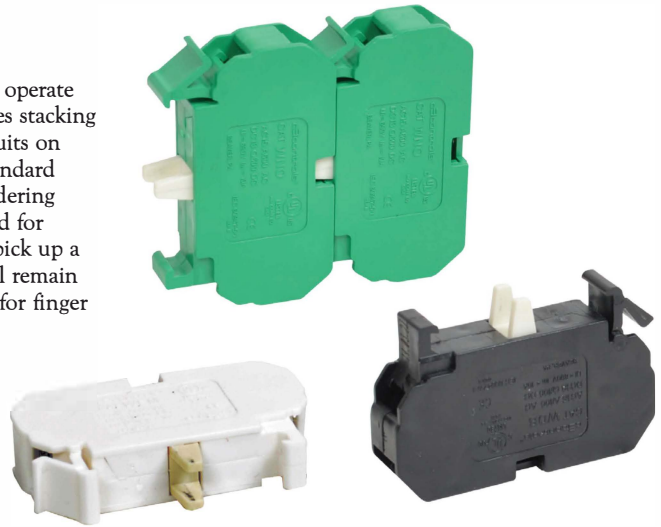
c3controls 22mm IEC modular contact blocks are constructed out of the finest materials ensuring secure assembly at every "snap". Our contact blocks can be stacked 2 deep and up to 3 across for a total of 6 circuits. 35 degree angled captive terminal screws and self-lifting pressure plates make wiring fast and easy. Also, our contact blocks are color coded for quick circuit identification.

AVAILABLE CONTACT BLOCKS FOR ORDINARY LOCATIONS



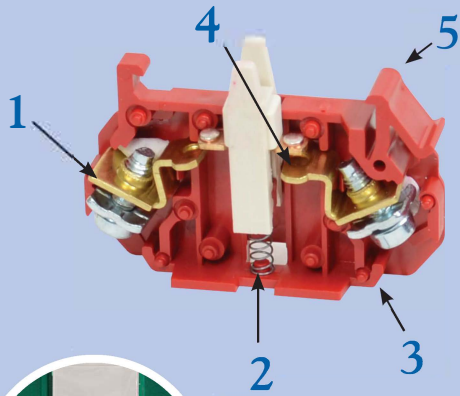
22MM IEC CONTACT BLOCKS

Our contact blocks save you time and money by offering the flexibility to operate multiple control circuits from a single pilot device. This capability includes stacking up to 2 contact blocks deep and up to 3 across providing a total of 6 circuits on most operators in any combination. And, unlike the competition, our standard latching device allows for 3-across contact blocks without the hassle of ordering separate latches. In addition, our "snap-on" contact blocks are color coded for instant circuit identification and take less time to install than it takes to pick up a screwdriver! The heavy-duty construction ensures these contact blocks will remain installed. Our contact blocks are rated A600 (AC), Q600 (DC) and IP20 for finger safe terminations.



UNIQUE PRODUCT FEATURES

C3CONTROLS MANUFACTURES THE MOST INNOVATIVE, USER-FRIENDLY LINE OF CONTACT BLOCKS ON THE MARKET TODAY!



1. 35 Degree angled captive terminal screws and self-lifting pressure plates facilitate wiring even when blocks are stacked.
2. Stainless steel spring for protection against corrosion.
3. Color-coded body for quick circuit identification (green = NO, red = NC, white = EM, black = DB).
4. Built-in self-wiping cleaning action and high contact point pressure for low-level switching. Silver contact rivets provide long life on normal control circuits.
5. Single mounting position allows for proper installation everytime and constant terminal position from block to block, reducing installation and wiring time.



Gold plated contacts are available on standard blocks for dry circuit applications.

IT'S EASY TO BUILD YOUR OWN PUSH BUTTON

Simply pick the code number from each of the sections below and combine them to build your part number.

Momentary Push Buttons (Non-Illuminated)

W22PB - - / /
I II III IV V* VI* VII*

Example: To build one of our most popular Push Buttons, the part number would be **W22PB + II + III + IV + V + VI + VII** or **W22PB-FG-10**

*NOTE: Contact block configurations are based on circuit designation. If only two contact blocks are selected, they will be assembled in the left and right positions.



I. OPERATOR TYPE	
CODE	DESCRIPTION
W22PB	Push Button Operator

II. BEZEL TYPE	
CODE	DESCRIPTION
(Blank)	Black Polyester (Type 4X)
A	Aluminum (Type 4)

III. CAP TYPE	
CODE	DESCRIPTION
F	Flush
E	Extended

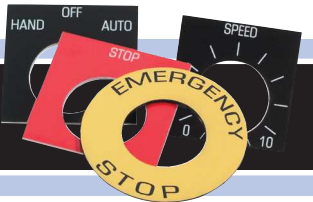
IV. CAP COLOR	
CODE	COLOR
K	Black
B	Blue
G	Green
E	Grey
R	Red
W	White
Y	Yellow

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)	
CODE	DESCRIPTION
(Blank)	Operator without Contact Blocks
10	1 Normally Open Contact Block
01	1 Normally Closed Contact Block
E	1 Early Make Contact Block
D	1 Delayed Break Contact Block
20	2 Normally Open Contact Blocks
02	2 Normally Closed Contact Blocks
11	1 Normally Open and 1 Normally Closed Contact Blocks

VI. CONTACT BLOCK CONFIGURATION (CENTER)	
(USE CHART V FROM ABOVE)	

VII. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)	
(USE CHART V FROM ABOVE)	

LEGEND PLATES in almost any size & color are available for same day shipping. See pages 307-309 for complete selection.



SOME OF OUR POPULAR CONFIGURATIONS:

MOMENTARY NON-ILLUMINATED PUSH BUTTON OPERATORS			
		FLUSH CAP	EXTENDED CAP
	CAP COLOR	CATALOG NUMBER	CATALOG NUMBER
1 NO	Black	W22PB-FK-10	W22PB-EK-10
	Green	W22PB-FG-10	W22PB-EG-10
	Red	W22PB-FR-10	W22PB-ER-10
1 NC	Black	W22PB-FK-01	W22PB-EK-01
	Green	W22PB-FG-01	W22PB-EG-01
	Red	W22PB-FR-01	W22PB-ER-01
1 NO & 1 NC	Black	W22PB-FK-10/01	W22PB-EK-10/01
	Green	W22PB-FG-10/01	W22PB-EG-10/01
	Red	W22PB-FR-10/01	W22PB-ER-10/01

MIX AND MATCH ANY COLOR AND MOMENTARY NON-ILLUMINATED PUSH BUTTON CAP



Flush Cap

Extended Cap

22MM IEC MOMENTARY NON-ILLUMINATED PUSH BUTTONS

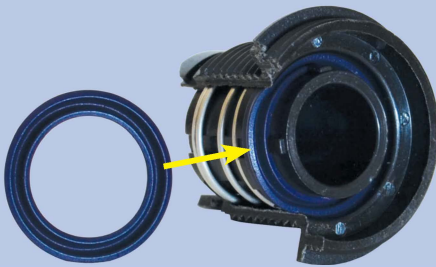
Our line of 22mm IEC Momentary Non-Illuminated Push Buttons feature contact blocks that are stackable up to 2 deep and 3 across for a total of 6 circuits per operator. All c3controls 22mm IEC operators are UL Listed and CE marked and are rated Type 4/4X as standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12, 13 and IP66 applications, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- Compact size, only 45.6mm (1-57/64") deep from the front of the panel.
- Seven color options are available in five different cap types.
- Optional black polyester or polished aluminum bezel.
- Spring loaded latch allows for easy installation and wiring for up to three contact blocks across.
- Modular contact blocks use M3.5 plated captive steel terminal screws with self-lifting captive wire clamps that accommodate 0.5 ~ 4mm² (#22 ~ #12 AWG) wires (one or two wires per terminal) and have IP20 guarded terminals to prevent accidental contact with live parts.
- Operators conveniently mount in a round 22.5mm (7/8") hole that is directly interchangeable with competitors units and eliminates the labor required for notching.



UNIQUE PRODUCT FEATURES



Our revolutionary U-cup seal is infused with a Teflon coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. The U-Cup seal rides easily along the stroker and keeps water, oils, dust and other corrosive particles in the air away from the contact blocks. The U-Cup seal also acts like a squeegee and forms a permanent watertight seal that meets or exceeds Type 4/4X.