## consig "Puts you In Control"

R. STAHL is setting new standards for function, design and technology with the new ConSig 8040 Series of control and signaling stations.
Designed for complex industrial conditions and rough operation, the new ConSig 8040 system combines functionality with an attractive, modular design. The wide variety of UL Listed/CSA Certified control and signaling devices can be supplied, providing the ultimate in flexibility to meet the


CONTROL \& SIGNALING STATIONS

The ConSig 8040 Series is a new generation of control and signaling stations utilizing explosion protected components with non-metallic control housings for the ultimate flexibility, safety and durability in Hazardous (Classified) and Hostile (Corrosive) Locations.
This control and signaling station utilizes snap-on mounted components making field assembly quick and easy. Components include contact blocks with a variety of actuator options, LED pilot lights in all of the standard colors and voltages from 12 V to 254 V AC/DC, 2-pole and 4-pole control switches configurations and direct or indirect reading ammeters.

## Enclosures

ConSig 8040 Series can be specified as one, two or three gang configurations and is made of Fiberglass Reinforced Polyester (FRP). Enclosure gasketing is durable EPDM which is concealed to protect it from premature aging by UV light and chemical elements. Components snap-on to the rail provided.

## Contact Blocks

The contact system incorporates 8082 Series contact blocks which are individually explosion protected single pole units and are available as 1 N.O. or 1 N.C. The contact blocks incorporate a parallel bridge contact (H-contact) designed to ensure utmost contact reliability even with very low control voltages and currents. Any combination can be installed to provide a complete range of control configurations. Standard actuator styles include a double push-button, booted pushbutton and illuminated pushbutton.

## LED Pilot Lights

ConSig 8040 Series introduces an extraordinary compact LED pilot light unit. The 8010 Series pilot light incorporates electronics which allow the same unit to operate at any voltage from 12 to 254 Volts, DC to 60 Hz . High output LEDs are used to provide superior illumination levels which are visible in direct sunlight from the front or side. The bezel is clear and the snap-on lenses are added in the colors Red, Green, Amber, White and Blue!

## Control Switches

8008 Series control switches offer over 300 different switching configurations. They are available as 2-pole and 4-pole units incorporating maintained or spring return action.
The control switch is for quick and easy snap-on mounting. Three styles of handles, with or without padlocking provision can be used in conjunction with the switches.

## Illuminated Push-Buttons

Illuminated push-buttons make it possible to have control and signaling functions in the space of one. This is achieved by combining the 8082 Series Contact Blocks and 8010 Series LED Pilot Lights under a special illuminated pushbutton actuator which is spring return with a clear bezel and five colored snap-in filter disks in Red, Green, Amber, White and Blue.

## Ammeters

ConSig 8040 Series offers a cost effective ammeter station
 as a solution for applications in a Hazardous (Classified) Location. The 8405 Series ammeter is a moving iron core instrument available in direct or indirect read versions. A manually adjustable red pointer provides quick and easy comparison of the actual circuit operation. The ammeter is for quick and easy snap-on mounting.


## CLASSIFICATIONS

NEC- Class I, Zones 1 \& 2 AEx de IIC T6 Class I, Division 2, Groups A,B,C,D Class II, Division 2, Groups F,G Class III
NEMA 3,4 \& 4X; IP66
(UL) usLISTED - FILE No. E182378 LSTED
CEC- Class I, Zones 1 \& 2 Ex de IIC T6
Class I, Division 2, Groups A,B,C,D
Class II, Divisions 1 \& 2, Groups E,F,G Class III
(SA CSA ENCLOSURES 3, 4 \& 4X; IP66 CERTIFIED - FILE No. LR99480-26

II 2 G EEx ed IIC T6, Zones 1 \& 2, IP66 Il 2 D ExtD A21 IP $65 \mathrm{~T} 80^{\circ} \mathrm{C}, \mathrm{T} 95^{\circ} \mathrm{C}, \mathrm{T} 130^{\circ} \mathrm{C}$ PTB 01 ATEX 1105

Ambient Temperature Range:
$+40^{\circ} \mathrm{C}\left(+104^{\circ} \mathrm{F}\right)$ Max.
$-20^{\circ} \mathrm{C}\left(-4^{\circ} \mathrm{F}\right)$ Min.
Special Ambient Temperature Range:*
$+60^{\circ} \mathrm{C}\left(+140^{\circ} \mathrm{F}\right)$ Max.
$-50^{\circ} \mathrm{C}\left(-58^{\circ} \mathrm{F}\right)$ Min.
*Consult Factory

## Ordering Information

| FUNCTION | CONTACT SYMBOL | CATALOG |
| :---: | :---: | :---: |
|  | IEC NEMA | NUMBER |
| "START" <br> Green Momentary <br> Pushbutton, 1 NO |  | 8040/114-X011 |
| "STOP" RED Momentary Pushbutton, 1NC |  <br> STOP | 8040/114-Y012 |
| "E-STOP" <br> SMALL RED Maintained Mushroom, 1 NC |  | 8040/114-Y100 |
| "E-STOP" JUMBO RED Maintained Pushbutton, 1 NC |  <br> STOP | 8040/114-Y150 |
| "E-STOP" <br> Keyed Maintained Red Mushroom, 1 NC |  <br> STOP | 8040/114-Y090 |
| "OFF - ON" <br> Selector Switch 2-Position/10 Amps |  | 8040/114-02MN1 |
| "LOCAL REMOTE" <br> Selector Switch <br> 2-Positions/10 Amps |  | 8040/114-U2MN4 |
| "Hand - 0 - Auto" Maintained Selector Switch 3-Positions/10 Amps |  | 8040/114-03MMN3 |
| "START-STOP" Double PB Momentary 1 NO / 1 NC | START STOP | 8040/114- U2312 |
| $\begin{gathered} \text { "PLLOT LLGHT" } \\ \text { RED LED } \\ \text { 12V-254V AC / DC } \end{gathered}$ |  | 8040/114 - PLRO |
| $\begin{gathered} \text { "PLLOT LIGHT" } \\ \text { GREEN LED } \\ \text { 12V-254V AC / DC } \end{gathered}$ |  | 8040/114 - PLGO |

All above stations include one $3 / 4^{\prime \prime}$ hub bottom.

PRE-CONFIGURED CONTROL STATIONS
Ordering Information

| FUNCTION |  |  | CONTACT SYMBOL |  | CATALOG NUMBER |
| :---: | :---: | :---: | :---: | :---: | :---: |
| (1) | (2) | (3) | IEC | NEMA |  |
| $\begin{aligned} & \text { RED LED } \\ & \text { Pilot Light } \\ & \text { 122--254V } \\ & \text { AC / DC } \end{aligned}$ | ---- | ---- |  | $(4)$ | 8040/124 - PLRO |
| "START" Green Momentary Pushbutton 1 NO / NC | ---- | ---- |  | - | 8040/124-U011 |
| "E-STOP" RED JUMBO Mushroom Maintained 2 NC | ---- | ---- |  | ote | 8040/124-C150 |
| "OFF - ON" Maintained Control Switch 2-Pos./2-Pole 10 amps | ---- | ---- |  |  | 8040/124-N021 |
| RED LED <br> Pilot Light AC / DC | "OFF-ON" Maintained Control Switch 2-Pos. 12 P.Ple 10 amps | ---- |  |  | 8040/224 - PLRO-N021 |
| " $\mathrm{H}-\mathrm{O}$-A" Maintained Control Switch 3-Pos./2-Pole 10 amps | ---- | ---- |  | HAND OFF AUTO $\begin{array}{lll} \bullet & \frac{1}{\bullet} \cdot \frac{1}{\bullet} \\ \bullet & \bullet & \bullet \\ \bullet & \bullet & \\ \bullet & 0 \end{array}$ | 8040/124-N273 |
| $\begin{aligned} & \text { "LOCAL } \\ & \text { REMOTE" } \\ & \text { Control Switch } \\ & \text { 2-Positions } \\ & 10 \text { amps } \end{aligned}$ | ---- | ---- |  | LOCAL REMOTE | 8040/124-N164 |
| "STOP-RUN START" Control Switch 3-Pos./2-Pole Spring Return From Right 10 amps | ---- | ---- |  | $\begin{aligned} & \text { STOP RUN START } \\ & \text { 1 } \\ & \\ & \hline \end{aligned}$ | 8040/124-N385 |
| $\begin{aligned} & \text { "START" } \\ & \text { Momentary } \\ & \text { Green } \\ & \text { Pushbutton } \\ & 1 \text { NO } 1 \text { NC } \end{aligned}$ | $\begin{array}{\|c} \text { "STOP" } \\ \text { Momentary } \\ \text { Red Pushbutton } \\ 1 \text { No } 1 \text { NC } \end{array}$ | --- |  |  | 8040/224-U011-U012 |
|  | $\begin{array}{\|l\|} \hline \text { "START-STOP" } \\ \text { Double PB } \\ \text { Momentary } \\ 1 \text { No / } 1 \text { NC } \end{array}$ | ---- |  |  | 8040/224 - PLRO-U2312 |
| $\begin{aligned} & \text { RED LED } \\ & \text { Pilot Light } \\ & \text { 12V-254V } \\ & \text { AC / DC } \end{aligned}$ | "Start" <br> Green Momentary Pushbutton 1 NO / 1 NC | $\begin{aligned} & \text { "STOP" } \\ & \text { Red } \\ & \text { Momentary } \\ & \text { Pushbutton } \\ & 1 \text { NO / } 1 \text { NC } \end{aligned}$ |  |  | 8040/3 34 - PLRO-U011-U012 |

All above stations include one $3 / 4$ " hub bottom.

## CONTROLS



## CLASSIFICATIONS

NEC- Class I, Zones 1 \& 2 AEx de IIC T6 Class I, Division 2, Groups A,B,C,D Class II, Division 2, Groups F,G
Class III
NEMA 3,4 \& 4X; IP66
(UL) usLISTED - FILE No. E182378
CEC- Class I, Zones 1 \& 2 Ex de IIC T6
Class I, Division 2, Groups A,B,C,D
Class II, Divisions 1 \& 2, Groups E,F,G
Class III
CSA ENCLOSURES 3, 4 \& 4X; IP66
CERTIFIED - FILE No. LR99480-26
See page F2
HOUSING MATERIAL AND GASKETING Fiberglass Reinforced Polyester (FRP) with EPDM recessed gasketing.

## FEATURES

The ConSig 8040 Series of control \& signaling stations with its many enclosure sizes and components is uniquely flexible. If the preconfigured control stations on pages F3 and F4 do not meet your specific application needs, take advantage of the flexibility of ConSig 8040 and use the custom configuration logic tables on the right to custom configure a control station which can exactly meet your particular application.

How to use configuration logic tables:
Fill in the blanks in the light blue striped fields located on the top of pages F5 and F6 left to right from information stated below the individual fields.
Step 1: Select enclosure size
Step 2: Select entry or entries
Step 3: Select the device mounted to the cover as well as the device mounted into the back box.

Step 4: Repeat step 3 when configuring a two-gang station.
Step 5: Repeat step 3 when configuring a three-gang station.

## DIMENSIONS

For dimensional data see page F15.

CUSTOM CONFIGURATION LOGIC
Start Here


12
1-device
Expanded

## 22

2-device

## 64

2-device
Expanded


## Entry Type:

## Conduit Hub-

$0=1 / 2^{\prime \prime}$ Hub Top Feed
$1=1 / 2^{\prime \prime}$ Hub Bottom Feed
$2=1 / 2^{\prime \prime}$ Hub Feed-Thru
3 = 3/4" Hub Top Feed
$4=3 / 4^{\prime \prime}$ Hub Bottom Feed
5 = 3/4" Hub Feed-Thru

> Compression Gland - FOR IEC CENELEC
> $\mathbf{6}=$ M25 Gland Top Feed
> $\mathbf{7}=$ M25 Gland Bottom Feed
> $\mathbf{8}=$ M25 Gland Feed-Thru
> $\mathbf{9}=$ Special

```
Threaded Opening -In Internal Ground Plate
A \(=1 / 2^{\prime \prime}\) NPT plate Top Feed
B = 1/2" NPT plate Bottom Feed
C = 1/2" NPT plate Feed-Through
D = 3/4" NPT plate Top Feed
\(\mathbf{E}=3 / 4\) " NPT plate Bottom Feed
F = 3/4" NPT plate Feed-Through
\(\mathbf{G}=1 / 2^{\prime \prime}\) NPT plug Feed-Through
H = 3/4" NPT plug Feed-Through
\(\mathbf{L}=\) M20 Plate Bottom Feed
\(\mathbf{M}=\) M25 Plate Bottom Feed
```


## Other Special Entries

Non-Metallic Cable Glands
J = M20 Gland Bottom Feed
$\mathbf{K}=$ M20 Gland Feed-Through
Metal Clad Cable Connectors
$\mathbf{Q}=$ MCR050 Bottom Feed
V = MCR075 Bottom Feed
8040 Control Station Coupling
$\mathbf{Z}$ = Coupling Frame Bottom

## Example

Device Specification (1, 2 or 3 devices described from top to bottom)


See brochure or catalog for device logic details

| PUSHBUTTONS |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Contact type $\mathbf{X}=1 \text { N.O. }$ <br> $\mathbf{Y}=1$ N.C. <br> $\mathbf{U}=1$ N.O. $/ 1$ N.C. <br> $\mathbf{O}=2 \mathrm{~N} . \mathrm{O}$. <br> C $=2$ N.C. <br> $\mathbf{M}=2$ N.C. $/ 1$ N.O. <br> $\mathbf{w}=1$ N.C. $/ 2$ N.O. <br> $\mathbf{T}=3$ N.C. <br> $\mathbf{R}=3$ N.O. <br> D $=2$ N.O./ 2 N.C. <br> only with actuator 23 in <br> enclosures 12, 54 \& 64 | Actuator type <br> 01 = Standard Momentary <br> 02 = Booted Momentary <br> 03 = Black Momentary small Mushroom <br> 09 = Keyed E-STOP Red Mushroom Maintained <br> $10=$ E-STOP Red small Mushroom Maintained <br> 12 = Black small Mushroom Maintained <br> 13 = Red small Mushroom Maintained <br> 15 = Emergency STOP Red Jumbo Mushroom Maint. <br> 23 = Double Pushbutton Momentary <br> P733 = Device Close-up Plug |  |  | Legend <br> 0 = none <br> 1 = START <br> 2 = STOP <br> 3 = ON <br> 4 = OFF <br> 5 = RUN <br> 6 = RESET <br> 7 = OPEN <br> 8 = CLOSE <br> 9 = special <br> (specify from F14) |
| SELECTOR SWITCHES |  |  |  |  |
| $\begin{aligned} & \mathbf{X}=1 \text { N.O. } \\ & \mathbf{Y}=1 \text { N.C. } \\ & \mathbf{U}=1 \text { N.O. } / 1 \text { N.C. } \\ & \mathbf{O}=2 \text { N.O. } \\ & \mathbf{C}=2 \text { N.C. } \end{aligned}$ | 2SK 2MK 3SSK 3MMK 3SMK 3MSK | 2SN <br> 2MN <br> 3SSN <br> 3MMN <br> 3SMN <br> 3MSN | 2SL <br> 2ML <br> 3SSL <br> 3MML <br> 3SML <br> 3MSL | Note: <br> For Actuator Descriptions see page F8 |


| PILOT LIGHTS |  |  |
| :--- | :--- | :--- |
| PL | Color | Legend |
|  | $\mathbf{A}=$ amber | Same \# as |
|  | $\mathbf{B}=$ blue | pushbutton |
|  | $\mathbf{G}=$ green |  |
|  | $\mathbf{R}=$ red |  |
|  | $\mathbf{W}=$ white |  |


| CONTROL SWITCHES |  |  |  |
| :---: | :---: | :---: | :---: |
| Actuator type <br> N = Non-lockable <br> S = Small-lockable <br> $\mathbf{L}$ = Large lockable | Switch arrangements 2 pole <br> $02=2$-pos. Maintained (OFF-ON) <br> $05=2$-pos. Maintained (ON-OFF) <br> $16=2$-pos. Maintained (LOCAL-REMOTE) <br> $27=3$-pos. Maintained (HAND-O-AUTO) <br> $38=3$-pos. Maint., Spring Return from <br> Right (OFF-RUN-START) <br> Switch arrangements 4 pole <br> 102 = 2-pos. OFF-ON <br>  <br> For more switching arrangements see pgs. F11 and F12. |  | $\begin{aligned} & \text { Legend } \\ & \mathbf{0}=\text { none } \\ & \mathbf{1}=\text { OFF-ON } \\ & \mathbf{2}=\text { ON-OFF } \\ & \mathbf{3}=\text { HAND-O-AUTO } \\ & \mathbf{4}=\text { LOCAL-REMOTE } \\ & \mathbf{5}=\text { STOP-RUN-START } \\ & \mathbf{6}=\mathbf{0}-1 \\ & \mathbf{7}=\text { blank one line text } \\ & \mathbf{8}=\text { blank two lines text } \\ & \mathbf{9}=\text { special (specify) } \end{aligned}$ |
| ILLUMINATED PUSHBUTTONS |  |  |  |
| $\begin{aligned} & \text { Spring Return } \\ & \text { SR }= \\ & \text { SG }= \\ & \text { SA }= \\ & \text { SW }= \\ & \text { SB }= \end{aligned}$ | Colors <br> red green amber white blue | Contact type <br> $\mathbf{X}=1 \mathrm{~N}$.O. <br> $\mathbf{Y}=1$ N.C. <br> $\mathbf{U}=1$ N.O. / 1 N.C. <br> $0=2$ N.O. <br> C $=2$ N.C. | Legend <br> Same \# as <br> pushbuttons |

## ILLUMINATED PUSHBUTTONS

$\mathbf{S G}=$
SA =
SB
SB =

Colors
red
amber
due

## Legend

Same \# as
pushbuttons

8040/334 - PLRO - U2312 - Y090


## PUSHBUTTON LOCKOUTS/GUARDS

LK01 = Momentary Lockout (01 \& 02)
LK02 = Momentary Exclusion (01 \& 02)
LK03 = Small Mushroom Guard ( $03,10,12$ \& 13)
LK10 = Small Mushroom Lockout (03,10,12 \& 13)
LK11 = Small Mushroom Pin \& Chain Lockout (03,10,12, 13 \& 15)
LK20 $=$ Small Mushroom Exclusion Lockout (03,10,12 \& 13)
LK21 $=$ Momentary Pushbutton (01 \& 02) exclusion
LK23 = Double Pushbutton Lockout, 1-device (23)

| POTENTIOMETERS |  |  |  |
| :---: | :---: | :---: | :---: |
| Dial Increments | Resistance (Ohm) Range |  |  |
| P1 = 0-10 scale | $01=100 \Omega$ | $06=4.7 \mathrm{k} \Omega$ | $11=220 \mathrm{k} \Omega$ |
| P2 = 0-100 scale | $\begin{aligned} & \mathbf{0 2}=220 \Omega \\ & 03=470 \Omega \end{aligned}$ | $\begin{aligned} & 07=10 \mathrm{k} \Omega \\ & 08=22 \mathrm{k} \Omega \end{aligned}$ | $\begin{aligned} & 12=470 \mathrm{k} \Omega \\ & 13=1 \mathrm{M} \Omega \end{aligned}$ |
| $\mathbf{P 6}=0-6$ scale | $\begin{aligned} & 04=1 \mathrm{k} \Omega \\ & 05=2.2 \mathrm{k} \Omega \end{aligned}$ | $\begin{aligned} & 09=47 \mathrm{k} \Omega \\ & 10=100 \mathrm{k} \Omega \end{aligned}$ | $\begin{aligned} & 14=2.2 \mathrm{M} \Omega \\ & 15=4.7 \mathrm{M} \Omega \end{aligned}$ |


| AMMETERS |  |
| :---: | :---: |
| Direct reading (2X overload): <br> AD.... | $\begin{aligned} & \text { Scales } \\ & 0.0 .02 / 0.04 \mathrm{~A} \\ & 0.1 / 2 \mathrm{~A} \\ & 0-4 / 8 \mathrm{~A} \\ & 0-10 / 20 \mathrm{~A} \\ & 0.15 / 30 \mathrm{~A} \end{aligned}$ |
| Indirect reading for Current Transformer (5X overload): |  |
|  | 0.1/5 0.50/250 |
| A1.... < | 0.2/10 0.75/375 |
| For 1 AMP C.T. | 0.5/25 0.100/500 |
|  | 0.10/50 $00.150 / 750$ |
| or | 0-15/75 0-200/1000 |
| A5.... < | 0-20/100 0-250/1250 |
| For 5 AMP C.T. | $\begin{aligned} & 0.30 / 1500-300 / 1500 \\ & 0.40 / 200 \end{aligned}$ |

## Ammeter Example:

8040/424-A1 20/100, Ammeter for CT 1AMP,
Scale 0-20/100A in
Enclosure Size 42 with 3/4" NPT Bottom Hub.


## APPROVALS

(U) us LISTED - FILE No. E182378 LISTED

CERTIFIED - FILE No. LR99480-26
PTB 01 ATEX 1129 U
STAHL offers a large variety of push-button actuator versions including momentary and maintained action in standard, booted, mushroom, keyed and selector switch styles. A new double push-button actuator combines two control functions in the space of one with the same size button.

Up to three 8082 contact blocks can be mounted under each push-button actuator. Under the double momentary push-button 23, up to four 8082 contact blocks can be mounted. Legend disks, in a variety of standard markings, snap into the center of the actuator making the button function easily identifiable.

PUSH BUTTON ACTUATORS

## Ordering Information

| ACTUATOR DESCRIPTION | INDIVIDUALORDERCATALOG NUMBER | ASSEMBLY CODE |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \hline \text { CONTACT } \\ & \text { BLOCK } \end{aligned}$ | $\begin{aligned} & \text { ACTUATOR } \\ & \text { CODE } \end{aligned}$ | $\begin{gathered} \text { LEGEND } \\ \text { DISK } \end{gathered}$ |
| Standard Momentary <br> Pushbutton 1.5" (38mm) O.D. <br> Legend disks to be ordered separately, see page F14. | 8602A0001-1-S |  | 01 _ | 0 = none |
| Booted Momentary Pushbutton 1.5" (38mm) O.D. Legend disks to be ordered separately, see page F14. | 8602A0002-1-S | $\begin{array}{r} \mathrm{M}=2 \times \mathrm{NC} \\ 1 \times \mathrm{NO} \end{array}$ | 02 _ | 1 = START |
| Double Momentary Pushbutton 1.5" (38mm) O.D. Legend disks to be ordered separately, see page F14. | 8602A0023-1-S | $\begin{array}{r} W=\begin{array}{r} 1 \times N C \\ 2 \times N O \end{array} \end{array}$ | 23 _ | $2=$ STOP |
| Black Mushroom Pushbutton 1.5" (38mm) O.D. <br> Momentary action. Legend disks to be ordered separately, see page F14. | 8602A0003-1-S | $\mathrm{T}=3 \times \mathrm{NC}$ | 03 __ | $3=O N$ |
| Emergency Stop Red Pushbutton <br> 1.5 " (38mm) O.D. <br> Maintained action. Turn-to- <br> Release. Arrow disk and <br> yellow washer supplied. | 8602A0010-1-S | $\mathrm{R}=3 \times \mathrm{NO}$ $\mathrm{X}=1 \times \mathrm{NO}$ | 10 | $4=O F F$ $5=$ RUN |
| Maintained Black Mushroom Pushbutton 1.5 " (38mm) O.D. <br> Maintained action. Turn-toRelease. Red arrow disk included | 8602A0012-1-S | $Y=1 \times N C$ | 12 | 6 = RESET |
| Maintained Red Mushroom Pushbutton 1.5 " (38mm) O.D. <br> Maintained action. <br> Turn-to-Release. Legend disks to be ordered separately, see page F14. | 8602A0013-1-S | $U=1 \mathrm{NO}+1$ <br> NC | 13 _ | 7 = OPEN |
| Emergency Stop (Jumbo) Red Pushbutton <br> 2.16" (55mm) O.D. <br> Maintained action. <br> Turn-to-Release. Arrow disk and yellow washer supplied. | 8602A0015-1-S | $\mathrm{O}=2 \times \mathrm{NO}$ $\mathrm{C}=2 \times \mathrm{NC}$ | 15 | $8=$ CLOSE |
| Emergency Stop Red Mushroom <br> 1.5 " (38mm) O.D. <br> Maintained action. Key-toRelease from maintained position. Arrow disk and yellow washer supplied. | $\begin{gathered} \text { 8602A0009-1-S } \\ \text {-MS1 } \end{gathered}$ | $\begin{aligned} & \mathrm{D}=2 \times \mathrm{NC} \\ & \text { (1) } \\ & 2 \times \mathrm{NO} \end{aligned}$ | 09 _ | 9 = special <br> (state text <br> w/order) |

SELECTOR SWITCH ACTUATORS

## Ordering Information



## STAHL

APPROVALS
©(IL) USLISTED - FILE No. E182378 Latio CERTIFIED - FLLE No. LR99480-26
(Ex PTB 01 ATEX 1129 U

## CONTROLS



## APPROVALS

(14) Us LISTED - FILE No. E182378 Liste
SA CERTIFIED - FILE No. LR99480-26
〈x PTB 00 ATEX 1031 U
The contact block Series 8082 are available in two versions.

- 1 NO
- 1 NC

Each block is made of polyamide and designed to contain an internal explosion.

The terminals are designed to increased safety requirements

## Control Components

8082 CONTACT BLOCK
Ordering Information

| DESCRIPTION | CONTACT SYMBOL |  | INDIVIDUALORDERCATALOG NUMBER |
| :---: | :---: | :---: | :---: |
|  | IEC | NEMA |  |
| Single contact block, 1 NC | $-L_{12}^{17}$ | - 0 | 8082/1-1-00 |
| Single contact block, 1 NO |  | $\frac{1}{\bullet \bullet}$ | 8082/1-2-00 |
| Lockout Terminal, 1 NC | $-L_{12}^{11}$ | - | 8082/1-1-01 |



## Technical Data

|  | NEC/CEC | IEC |
| :--- | :---: | :---: |
| Rated Voltage | 600 VAC | 500 VAC |
| Continuous Current | 10 A | 6 A |
| Terminals | 12 AWG | $2.5 \mathrm{~mm}^{2}$ |
| Mechanical Life | $\geq 10^{6}$ operations |  |
| Electrical Life | $\geq 10^{6}$ operations |  |
| Housing Material | polyamide |  |
| Contact Material | silver plated |  |
| Lowest Energy | $50 \mathrm{~mA} . @ 12 \mathrm{VAC} / \mathrm{DC}^{*}$ |  |

* For lower energy use gold plated contacts, available on request.


## 8010 LED Pilot Light

## Ordering Information

|  | COLORS | SYMBOL |  | INDIVIDUAL ORDER CATALOG NUMBER | $\begin{aligned} & \text { ASSEMBLY } \\ & \text { CODE } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | IEC | NEMA |  |  |
| PILOT <br> LIGHT | white | $\left.\right\|_{x} ^{x}$ |  | 8010/2-01-W | Included in ordering code below. |
| BEZELWITHCOLOREDLENS | red |  |  | 8602803587 AA | PLR |
|  | amber |  |  | 8602803587 AB | PLA |
|  | green |  |  | 8602803587 AC | PLG |
|  | clear |  |  | 8602803587 AD | PLW |
|  | blue |  |  | 8602803587 AE | PLB |

See page F14 for legend plate ordering information.


Technical Data

|  | NEC/CEC/IEC |
| :--- | :---: |
| Rated Voltage | $12 \mathrm{~V}-10 \% \ldots 254 \mathrm{~V}+6 \%$ |
| Frequency | DC $\ldots 60 \mathrm{~Hz}$. |
| Rated Current | max. 15 mA. |
| Rated Power | max. 15 mW |
| Electrical Life | 100,000 hrs (11yrs) |
| Colors | Red, Amber, Green, White, Blue |
| Terminals | $2.5 \mathrm{~mm}^{2}$ (12AWG) |
| Housing Material | polyamide |

Control Components
8082/8010 ILLUMINATED PUSHBUTTON
Ordering Information

|  | CONTACT SYMBOL | COLOR | INDIVIDUAL ORDER CATALOG NUMBER | ASSEMBLY CODE |
| :---: | :---: | :---: | :---: | :---: |
|  | IEC NEMA |  |  |  |
| Contact Arrangement |  |  |  |  |
| 1NC + 1 NO | $-\left.\left.\overbrace{12}^{11}\right\|_{14} ^{11}\right\|_{x 2} ^{13} \sum_{0}^{x 1}$ <br> $\bigcirc$ | N/A | 8602-A0737-1 | U |
| 2 NC | $-\left.\left.\left.\right\|_{12} ^{11}\right\|_{12} ^{11}\right\|_{x 2} ^{x_{1}}$ | N/A | 8602-A0738-1 | C |
| 2 NO | $-\left.\left.\left.\right\|_{14} ^{13}\right\|_{14} ^{13}\right\|_{x 2} ^{x 1}$ | N/A | 8602-A0739-1 | 0 |
| Actuator |  |  |  |  |
| Spring Return | Includes red, green, amber, white and blue color filter disks | red green <br> amber <br> white <br> blue | 8602-A0735-1 | $\begin{aligned} & \text { SR } \\ & \text { SG } \\ & \text { SA } \\ & \text { SW } \\ & \text { SB } \end{aligned}$ |

## Technical Data

| 8010 Pilot Light | NEC/CEC/IEC |  |
| :---: | :---: | :---: |
| Rated Voltage | 12V-10\% . . 254V+6\% |  |
| Frequency | DC . . 60Hz. |  |
| Rated Current | max. 15 mA . |  |
| Rated Power | max. 15mW |  |
| Electrical Life | 100,000 hrs. (11 yrs.) |  |
| Colors | Red, Green, Amber, White, Blue, |  |
| Terminals | 12AWG (2.5mm) |  |
| Housing Material | polyamide |  |
| 8082 Contact Block | NEC/CEC | IEC |
| Rated Voltage | 600VAC | 500VAC |
| Continuous Current | 10A | 6A |
| Lowest Energy | 50mA @ 12VAC/DC* |  |

* For lower energy use gold plated contacts, available on request.


## 8008 CONTROL SWITCHES

## STAHL

## APPROVALS

© (UL) usLISTED - FILE No. E182378 usite

CERTIFIED - FILE No. LR99480-26
(Ex) PTB 00 ATEX 1111 U

The 8008 Series is a two pole and a four pole control switch which is rail mountable via a supplied adapter plate. Control switch bodies are made from polyester and designed to contain the pressure generated by an internal explosion. The switches are available in over 300 different contact configurations. The most common 2-pole switching arrangements are illustrated on this page. The 4 pole switching arrangements are illustrated on page F12. For more configurations, consult factory.

## Ordering Information

Selector switch specification example: 8008/2-038 How to read the diagram:
First we note that there are three positions to which the handle can be turned: $45^{\circ}$ left position, $90^{\circ}$ center position and $135^{\circ}$ right position.


The first contact, designated by terminal numbers $13-14$ is open when the handle is in the left position $\left(45^{\circ}\right)$ [blank square], it is also open in the center position $\left(90^{\circ}\right)$ [blank square], and is closed in the right position ( $135^{\circ}$ ) [square marked with an X].
The second contact, designated by terminal numbers $23-24$ is open in the left position ( $45^{\circ}$ ) [blank square] and is closed in the center position $\left(90^{\circ}\right)$ [square marked with an X ]. At the right position $\left(135^{\circ}\right)$ the contact remains closed [square marked with an X].

The terminal numbers are marked on the switch block.
See chart below for a selection of available contact configurations. For other contact configurations, consult factory.

Technical Data for 2 and 4 Pole

|  | NEC/CEC | IEC |
| :--- | :---: | :---: |
| Rated Voltage | 600 V | 690 VAC |
| Rated Current | 10 A | 16 A |
| Mechanical Life | $\geq 10^{5}$ Operations |  |
| Electrical Life | $\geq 10^{5}$ Operations |  |
| Terminals | 12 AWG | $2.5 \mathrm{~mm}^{2}$ |


| MAKE |  |  |
| :---: | :---: | :---: |
| BREAK |  |  |
| DIAGRAM | CONTACT | ORDERING |
| ARRANGEMENT | CODE 038 |  |



Note: The above denoted $45^{\circ} / 90^{\circ}$ at the notch indicates that in these two positions the switch is maintained, and the unmentioned $135^{\circ}$ position is spring return to the $90^{\circ}$ center position. The contacts are drawn in the $45^{\circ}$ position. This is indicated by the solid $45^{\circ}$ line.

## Ordering Information, 2 Pole Switches

| MAKE BREAK DIAGRAMS | CONTACT ARRANGEMENTS | INDIVIDUAL ORDER CATALOG NUMBER | ASSEMBLY CODE |
| :---: | :---: | :---: | :---: |
| $\frac{1323}{4^{45^{\circ}} \mid 1 \times}$ |  | 8008/2-002 | $\rceil 02$ |
| $\begin{array}{r} \left.\begin{array}{r} 1121 \\ \frac{45^{\circ} \times 1 \times}{135^{\circ}} \\ \hline 1222 \end{array}\right] \end{array}$ |  | 8008/2-005 | $\square 05$ |
|  | $\left.\left.\stackrel{45^{\circ} \quad 135^{\circ}}{-v}\right\|_{12} ^{11}\right\|_{24} ^{23}$ | 8008/2-016 | $\square 16$ |
|  |  | 8008/2-027 | $\square 27$ |
|  |  | 8008/2-034 | $\square 34$ |
|  |  | 8008/2-038 | $\square 38$ |
| $45^{\circ}$ 13 <br> $90^{\circ}$  <br> $135^{\circ}$ $x$ <br> 14  <br> 24  |  | 8008/2-040 | $\square 40$ |
|  |  | 8008/2-051 | $\square 51$ |

[^0]Control Components

## 8008 CONTROL SWITCHES, 4-POLE

Ordering Information, 4 Pole Switches


## Control Components



## APPROVALS

(1L) usLISTED - FILE E182378
SHA
CERTIFIED - FLLE LR99480-26
Ex PTB 01 ATEX 2158 U
The 8405 Series ammeters are used to measure current of a motor supply circuit in a potentially explosive atmosphere.

They are available in both direct and indirect reading versions (current transformer not supplied) with slide in scales to accommodate any amperage range required.

A red pointer can be manually adjusted for quick visual comparison of the actual value with the set value.

The supplied adapter plate allows the unit to be rail mounted for snap-on-installation.

## APPROVALS

## (1L) us Applied For

usite
CERTIFIED - FILE LR99480-26
PTB 01 ATEX 1066U
A potentiometer functions as a variable resistor. It is used to adjust resistance in a control circuit to vary motor speed or other applications.

The housing is made from polyester and designed to contain the pressure generated by an internal explosion.

The supplied adapter makes it rail mountable for snap-on-installation.

8405 AMMETERS

## Ordering Information

| TYPE | MEASURING RANGE | INDIVIDUAL ORDER CATALOG NUMBER | $\begin{aligned} & \text { ASSEMBLY } \\ & \text { CODE } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| DIRECT READ (2X OVERLOAD) | 0-20mA or 4-20mA | 8405/2-0.02/0.04 | AD0204 |
|  | 0-1/2 A | 8405/2-1/2 | AD0012 |
|  | 0-4/8 A | 8405/2-4/8 | AD0048 |
|  | 0-10/20 A | 8405/2-10/20 | AD1020 |
|  | 0-15/30 A | 8405/2-15/30 | AD1530 |
| INDIRECT READ (for current transformer) | 1A Secondary/ <br> 2 and 5X Overload | 8405/2-1 |  |
|  | 5A Secondary/ <br> 2 and 5X Overload | 8405/2-5 |  |
|  | SCALE CODES |  |  |
|  | 1/5 | 20/100 | 100/500 |
|  | 2/10 | 30/150 | 150/750 |
|  | 5/25 | 40/200 | 200/1000 |
|  | 10/50 | 50/250 | 250/1250 |
|  | 15/75 | 75/375 | 300/1500 |
| BEZEL | $\begin{gathered} 2.5^{\prime \prime} \times 2.5^{\prime \prime} \\ (64 \times 64 \mathrm{~mm}) \end{gathered}$ | 8603801587 | Included in ordering code above |

## Technical Data

|  | NEC/CEC | IEC |
| :--- | :---: | :---: |
| Rated Insulated Voltage: | 600 V | 690 V |
| Movement: | Iron Core |  |
| Power Consumption: | 0.2 W Max. |  |
| Frequency | $15-100 \mathrm{~Hz}$. DC available |  |
| Accuracy | $2.5 \%$ of full range |  |
| Terminals | 12 AWG |  |

## 8208 POTENTIOMETERS FOR HAZARDOUS LOCATIONS Ordering Information

|  | INDIVIDUAL ORDER CATALOG NUMBER | ASSEMBLY CODE |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Potentiometer | 8208/24-08-S002- |    <br> $01=100 \Omega$ $06=4.7 \mathrm{k} \Omega$ $11=220 \mathrm{k} \Omega$ <br> $02=220 \Omega$ $07=10 \mathrm{k} \Omega$ $12=470 \mathrm{k} \Omega$ <br> $03=470 \Omega$ $08=22 \mathrm{k} \Omega$ $13=1 \mathrm{M} \Omega$ <br> $04=1 \mathrm{k} \Omega$ $09=47 \mathrm{k} \Omega$ $14=2.2 \mathrm{M} \Omega$ <br> $05=2.2 \mathrm{k} \Omega$ $10=100 \mathrm{k} \Omega$ $15=4.7 \mathrm{M} \Omega$ |  |  |
| resistance values in ohms |  |  |  |  |
| Actuator |  |  |  |  |
| $\begin{array}{ll} \text { with dial scale } & 0-6 \\ & 0-10 \\ & 0-100 \end{array}$ | 8602806167 AA 8602806167 AB 8602806167 AC |  | $\begin{aligned} & \text { P6 } \\ & \text { P1 } \\ & \text { P2 } \end{aligned}$ |  |

Technical Data

| Housing material: | Polyester |  |
| :--- | :---: | :---: |
| Rated Power: | 2 Watt |  |
| Voltage limit: | 450V |  |
| Resistance Values: | 100 ohms to 4.7 mega ohms |  |
| Characteristics: | linear |  |
| Resistance tolerance: | $\pm 30 \%$ |  |
| Material of resistor: | carbon |  |
| Adjustment scale: | 270 degrees |  |
| Terminals: | 12AWG $\left(2.5 \mathrm{~mm}^{2}\right)$ |  |




## Pushbutton Legend Disks Ordering

| DESCRIPTION | CATALOG NUMBER |  |
| :---: | :---: | :---: |
| Blank, Legend Disk Blue | 8602934856 |  |
| Blank, Legend Disk Yellow | 8602935856 |  |
| Blank, Legend Disk Red | 8602930856 |  |
| Blank, Legend Disk Green | 8602931856 |  |
| Blank, Legend Disk White | 8602933856 |  |
| Blank, Legend Disk Black | 8602932856 |  |
| Red, Legend Disk "STOP" | 8602903840 |  |
| Green, Legend Disc "START" | 8602909840 |  |
| Red, Legend Disk "OFF" | 8602905840 |  |
| Green, Legend Disk "ON" | 8602906840 |  |
| Green, Legend Disk "l" | 8602907840 |  |
| Green, Legend Disk "ll" | 8602908840 |  |
| Red, Legend Disk "O" | 8602902840 |  |
| Red, Legend Disk Arrow $\rightarrow$ | 8602901840 |  |
| Black, Legend Disk "UP" | 8602932850 | "UP" |
| Black, Legend Disk "DOWN" | 8602932850 | "DOWN" |
| Black, Legend Disk "RUN" | 8602932850 | "RUN" |
| Black, Legend Disk "SLOW" | 8602932850 | "SLOW" |
| Black, Legend Disk "FAST" | 8602932850 | "FAST" |
| Black, Legend Disk "CLOSE" | 8602925840 |  |
| Black, Legend Disk "OPEN" | 8602923840 |  |
| Black, Legend Disk "AUTO" | 8602932850 | "AUTO" |
| Black, Legend Disk "RIGHT" | 8602932850 | "RIGHT" |
| Black, Legend Disk "LEFT" | 8602932850 | "LEFT" |
| Black, Legend Disk "HAND" | 8602932850 | "HAND" |
| Black, Legend Disk "RESET" | 8602932850 | "RESET" |
| Black, Legend Disk "OFF-ON" | 8602932850 | "OFF-ON" |
| Black, Legend Disk Arrow $\uparrow$ | 8602911840 |  |
| Black, Legend Disk Arrow | 8602912840 |  |

## Conduit \& Cable Entry Parts Ordering

| DESCRIPTION | CATALOG <br> NUMBER |
| :--- | :---: |
| Hub Assemblies for FRP Housings |  |
| Back Plate M20 | $\mathbf{8 0 4 0 0 0 7 5 5 0}$ |
| Back Plate M25 | $\mathbf{8 0 4 0 0 0 8 5 5 0}$ |
| Back Plate 1/2" | $\mathbf{8 0 4 0 0 1 0 5 5 0}$ |
| Back Plate 3/4" | $\mathbf{8 0 4 0 0 0 9 5 5 0}$ |
| 3/4" NPT Fixed Hub | $\mathbf{8 2 9 5 9} 39370$ |
| Cable Gland, plastic M25 | $\mathbf{8 1 6 1 / 5 - M 2 5 - 1 7}$ |
| Close-up Plug M25 | $\mathbf{8 2 9 0 / 3 - M 2 5}$ |
| Locknut M25 | $\mathbf{8 1 6 1 0 0 3 9 1 0}$ |
| Breathing Gland, includes locknut M25 | $\mathbf{8 1 6 2 0} 04020$ |
| Breathing Gland, 3/4" | $\mathbf{8 1 6 2 / 9}$ |
| Reducer, 3/4" - 1/2" NPT | R-21 |
| Coupling Kit M25 | $\mathbf{8 0 ~ 4 0 8 ~ 0 6 ~ 2 9 ~ 0 ~}$ |



Legend Plates Ordering

| T | DESCRIPTION |  |  | CATALOG NUMBER |
| :---: | :---: | :---: | :---: | :---: |
|  | Small Legend Frame Inserts: |  |  | 8602904800 |
|  | POS. 1 | POS. 2 | POS. 3 |  |
|  | HAND | 0 | AUTO | 8602909850 |
|  | OFF | - | ON | 8602908850 |
|  |  | 0 | I | 8602907850 |
|  | I |  | II | 8602906850 |
|  | 1 | 0 | 11 | 8602905850 |
|  | 0 | I | II | 8602904850 |
|  | 0 | - | 1 | 8602902850 |
|  | 0/OFF |  | I/ON | 8602901850 |
|  | Blank- 1 line space Large Legend Frame Blank- 2 line space |  |  | 8602910850 |
|  |  |  |  | 8602907800 |
|  |  |  |  | 8602924850 |

Legend Disks for Large Control

Switch Handle* Ordering

| DESCRIPTION | CATALOG <br> NUMBER |
| :--- | :---: |
| Blank | 8602923856 |
| OFF-ON | 8602922850 |
| HAND-O-AUTO | 8602918850 |

Label Ordering


|  | Description | Catalog Number | Assembly Code |
| :---: | :---: | :---: | :---: |
|  | Device close-up plug | 8602801587 | P733 |
| \% 2 | Actuator wrench | 8030901400 | N/A |
|  | Momentary PB 01, 02 lockout | 8602A0754 | LK01 |
|  | Momentary PB 01, 02 exclusion | 8602A0755 | LK02 |
| $70$ | Small mushroom PB 03, $10,12 \& 13$ guard | 8602A0751 | LK03 |
| $0_{0}^{0} \sqrt{0} 0$ | Small mushroom 03, 10, 12 \& 13 lockout | 8602A0752 | LK10 |
| $\Omega$ | Mushrooms 10, 15 pin \& chain lockout | 8602A0756 | LK11 |
|  | Small mushroom 03, 10, 12 \& 13 exclusion | 8602A0758 | LK20 |
|  | Momentary PB 01, 02 exclusion | 8602A0753 | LK21 |
| $\bigcirc$ | Double PB 23 lockout | 8802A0757 | LK23 |



Actuator Wrench


Breather Drain
M25


Breather Drain

## CONTROLS

## ConSig 8040 Series

DIMENSIONS



8040/64


8040/12


8040/33



8040/42


8040/54


8040/73,84,94


[^0]:    (See Switch handle ordering table on next page).

