

# ConSig 8040 Series

CONTROL & SIGNALING STATIONS



CONTROLS

STAHL

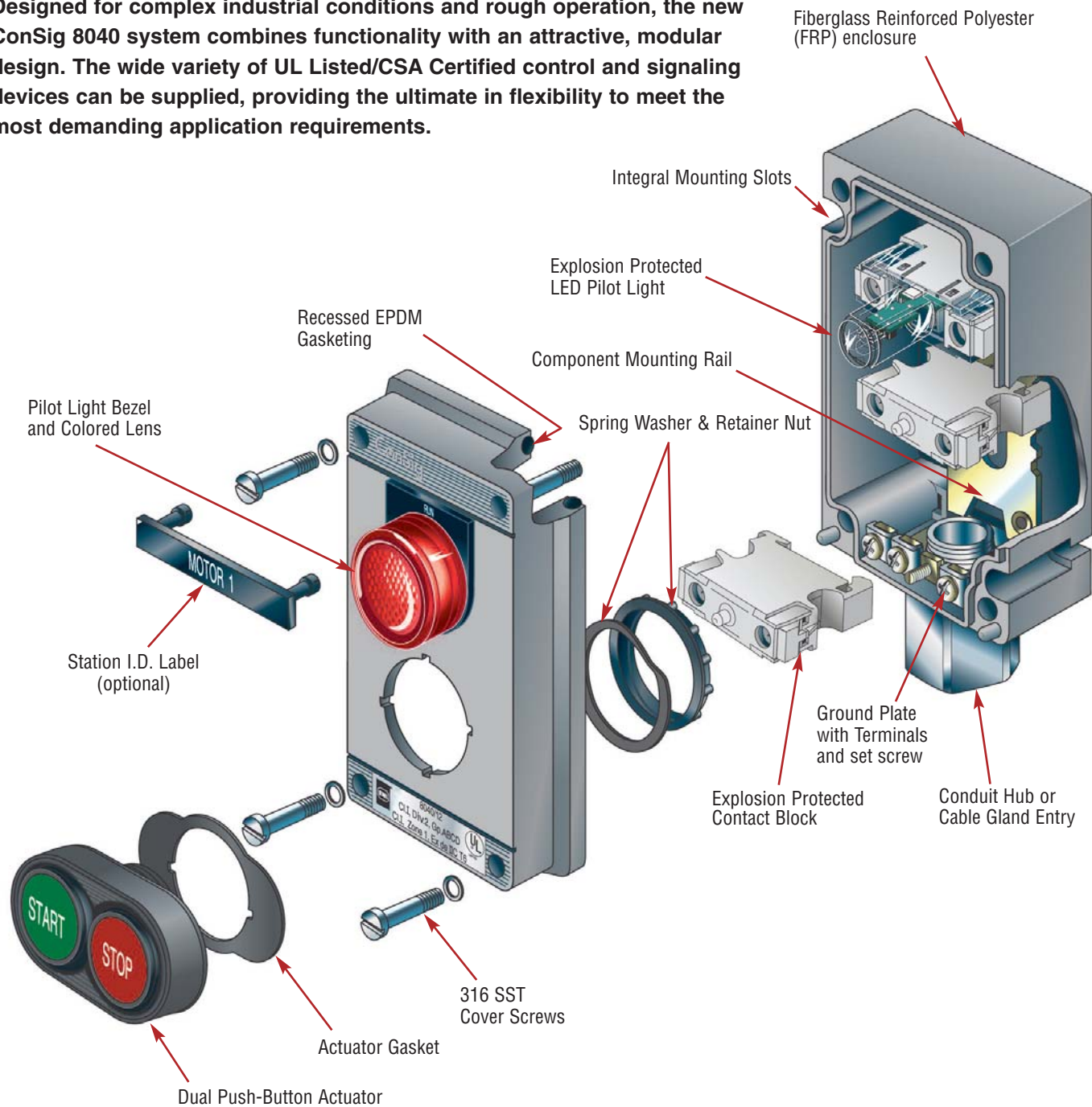
## 8040 Features:

- *Attractive space efficient design.*
- *A variety of enclosure sizes made of Fiberglass Reinforced Polyester (FRP).*
- *Snap-on mounting of individual components.*
- *High illumination LED pilot light from 12V to 254V, AC or DC with an operating life time over 100,000 hours.*
- *A variety of pushbuttons.*
- *Control switches.*
- *Illuminated pushbutton.*
- *Durable EPDM enclosure gaskets are concealed to protect from damage or premature aging by UV light and chemicals.*
- *Fluorsilicate gasket in standard pushbutton actuators is suitable for a wide temperature range.*

# 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 most demanding application requirements.





## 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.

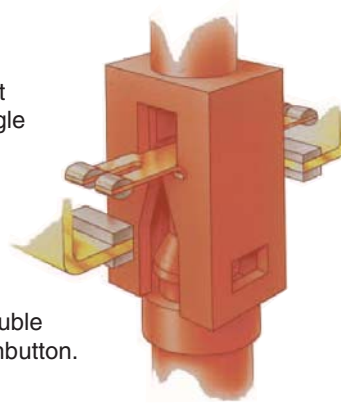
This control and signaling station utilizes snap-on mounted components making field assembly quick and easy. Components include contact blocks with a variety of actuator options, LED pilot lights in all of the standard colors and voltages from 12V to 254V AC/DC, 2-pole and 4-pole control switches configurations 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

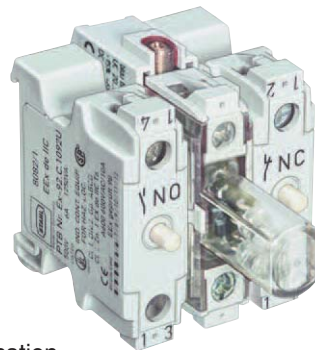
ConSig 8040 Series introduces an extraordinary compact LED pilot light unit. The 8010 Series pilot light incorporates electronics which allow the same unit to operate at any voltage from 12 to 254 Volts, DC to 60 Hz. High output LEDs are used to provide superior illumination levels which are visible 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



US LISTED - 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



II 2 G EEx ed IIC T6, Zones 1 & 2, IP66  
II 2 D Ex tD A21 IP 65 T80°C, T95°C, T130°C  
PTB 01 ATEX 1105

### Ambient Temperature Range:

+40°C (+104°F) Max.

-20°C (-4°F) Min.

### Special Ambient Temperature Range:\*

+60°C (+140°F) Max.

-50°C (-58°F) Min.

\*Consult Factory



## PRE-CONFIGURED CONTROL STATIONS

STAHL

### Ordering Information

FUNCTION	CONTACT SYMBOL		CATALOG NUMBER
	IEC	NEMA	
"START" Green Momentary Pushbutton, 1 NO		START 	8040/114 - X011
"STOP" RED Momentary Pushbutton, 1 NC		STOP 	8040/114 - Y012
"E-STOP" SMALL RED Maintained Mushroom, 1 NC		STOP 	8040/114 - Y100
"E-STOP" JUMBO RED Maintained Pushbutton, 1 NC		STOP 	8040/114 - Y150
"E-STOP" Keyed Maintained Red Mushroom, 1 NC		STOP 	8040/114 - Y090
"OFF - ON" Selector Switch 2-Position/10 Amps		OFF    ON 	8040/114 - 02MN1
"LOCAL REMOTE" Selector Switch 2-Positions/10 Amps		LOCAL    REMOTE 	8040/114 - U2MN4
"Hand - 0 - Auto" Maintained Selector Switch 3-Positions/10 Amps		HAND    0    AUTO 	8040/114 - 03MMN3
"START-STOP" Double PB Momentary 1 NO / 1 NC		START    STOP 	8040/114 - U2312
"PILOT LIGHT" RED LED 12V-254V AC / DC			8040/114 - PLR0
"PILOT LIGHT" GREEN LED 12V-254V AC / DC			8040/114 - PLG0

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

### PRE-CONFIGURED CONTROL STATIONS

#### Ordering Information

FUNCTION			CONTACT SYMBOL		CATALOG NUMBER
①	②	③	IEC	NEMA	
RED LED Pilot Light 12V-254V AC / DC	---	---			8040/124 - PLR0
"START" Green Momentary Pushbutton 1 NO / 1 NC	---	---			8040/124 - U011
"E-STOP" RED JUMBO Mushroom Maintained 2 NC	---	---			8040/124 - C150
"OFF - ON" Maintained Control Switch 2-Pos./2-Pole 10 amps	---	---			8040/124 - N021
RED LED Pilot Light 12V-254V AC / DC	"OFF-ON" Maintained Control Switch 2-Pos./2-Pole 10 amps	---			8040/224 - PLR0-N021
"H - O - A" Maintained Control Switch 3-Pos./2-Pole 10 amps	---	---			8040/124 - N273
"LOCAL REMOTE" Control Switch 2-Positions 10 amps	---	---			8040/124 - N164
"STOP-RUN START" Control Switch 3-Pos./2-Pole Spring Return From Right 10 amps	---	---			8040/124 - N385
"START" Momentary Green Pushbutton 1 NO / 1 NC	"STOP" Momentary Red Pushbutton 1 NO / 1 NC	---			8040/224 - U011-U012
RED LED Pilot Light 12V- 254V AC / DC	"START-STOP" Double PB Momentary 1 NO / 1 NC	---			8040/224 - PLR0-U2312
RED LED Pilot Light 12V-254V AC / DC	"Start" Green Momentary Pushbutton 1 NO / 1 NC	"STOP" Red Momentary Pushbutton 1 NO / 1 NC			8040/3 34 - PLR0-U011-U012

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



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## 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 LISTED - 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

ConSig  
Control Station  
8040/

### Enclosure

Enclosure Size  
( )

Entry or Entries  
( )

**11**  
1-device  
Compact

**12**  
1-device  
Expanded

**22**  
2-device

**64**  
2-device  
Expanded

**33**  
3-device

**42**  
Ammeter

**54**  
Ammeter  
plus  
1-device

**73** One  
4 Pole  
switch  
Deep

**84** Two  
4 Pole  
switch  
Deep

**94**  
Ammeter  
1- 4 Pole  
switch  
Deep

### Entry Type:

#### Conduit Hub-

**0** = 1/2" Hub Top Feed  
**1** = 1/2" Hub Bottom Feed  
**2** = 1/2" Hub Feed-Thru  
**3** = 3/4" Hub Top Feed  
**4** = 3/4" Hub Bottom Feed  
**5** = 3/4" Hub Feed-Thru

#### Compression Gland - FOR IEC CENELEC

**6** = M25 Gland Top Feed  
**7** = M25 Gland Bottom Feed  
**8** = M25 Gland Feed-Thru  
**9** = Special

#### Threaded Opening - In Internal Ground Plate

**A** = 1/2" 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  
**E** = 3/4" NPT plate Bottom Feed  
**F** = 3/4" NPT plate Feed-Through  
**G** = 1/2" NPT plug Feed-Through  
**H** = 3/4" NPT plug Feed-Through  
**L** = M20 Plate Bottom Feed  
**M** = M25 Plate Bottom Feed

#### Other Special Entries

##### Non-Metallic Cable Glands

**J** = M20 Gland Bottom Feed  
**K** = M20 Gland Feed-Through

##### Metal Clad Cable Connectors

**Q** = MCR050 Bottom Feed  
**V** = MCR075 Bottom Feed

##### 8040 Control Station Coupling

**Z** = Coupling Frame Bottom



### CUSTOM CONFIGURATION LOGIC

#### Example

8040/334 - PLR0 - U2312 - Y090



Device Specification (1, 2 or 3 devices described from top to bottom)		
First or only position ( )	Second position ( )	Third position ( )

See brochure or catalog for device logic details

#### PUSHBUTTONS

Contact type	Actuator type	Legend
<b>X</b> = 1 N.O.	<b>01</b> = Standard Momentary	<b>0</b> = none
<b>Y</b> = 1 N.C.	<b>02</b> = Booted Momentary	<b>1</b> = START
<b>U</b> = 1 N.O./ 1 N.C.	<b>03</b> = Black Momentary small Mushroom	<b>2</b> = STOP
<b>O</b> = 2 N.O.	<b>09</b> = Keyed E-STOP Red Mushroom Maintained	<b>3</b> = ON
<b>C</b> = 2 N.C.	<b>10</b> = E-STOP Red small Mushroom Maintained	<b>4</b> = OFF
<b>M</b> = 2 N.C./ 1 N.O.	<b>12</b> = Black small Mushroom Maintained	<b>5</b> = RUN
<b>W</b> = 1 N.C./ 2 N.O.	<b>13</b> = Red small Mushroom Maintained	<b>6</b> = RESET
<b>T</b> = 3 N.C.	<b>15</b> = Emergency STOP Red Jumbo Mushroom Maint.	<b>7</b> = OPEN
<b>R</b> = 3 N.O.	<b>23</b> = Double Pushbutton Momentary	<b>8</b> = CLOSE
<b>D</b> = 2 N.O./ 2 N.C. only with actuator 23 in enclosures 12, 54 & 64	<b>P733</b> = Device Close-up Plug	<b>9</b> = special (specify from F14)

#### SELECTOR SWITCHES

	2SK	2SN	2SL	Note: For Actuator Descriptions see page F8
<b>X</b> = 1 N.O.	<b>2MK</b>	<b>2MN</b>	<b>2ML</b>	
<b>Y</b> = 1 N.C.	<b>3SSK</b>	<b>3SSN</b>	<b>3SSL</b>	
<b>U</b> = 1 N.O./ 1 N.C.	<b>3MMK</b>	<b>3MMN</b>	<b>3MML</b>	
<b>O</b> = 2 N.O.	<b>3SMK</b>	<b>3SMN</b>	<b>3SML</b>	
<b>C</b> = 2 N.C.	<b>3MSK</b>	<b>3MSN</b>	<b>3MSL</b>	

#### PILOT LIGHTS

PL	Color	Legend
	<b>A</b> = amber	Same # as pushbutton
	<b>B</b> = blue	
	<b>G</b> = green	
	<b>R</b> = red	
	<b>W</b> = white	

#### CONTROL SWITCHES

Actuator type	Switch arrangements 2 pole	Legend
<b>N</b> = Non-lockable	<b>02</b> = 2-pos. Maintained (OFF-ON)	<b>0</b> = none
<b>S</b> = Small-lockable	<b>05</b> = 2-pos. Maintained (ON-OFF)	<b>1</b> = OFF-ON
<b>L</b> = Large lockable	<b>16</b> = 2-pos. Maintained (LOCAL-REMOTE)	<b>2</b> = ON-OFF
	<b>27</b> = 3-pos. Maintained (HAND-O-AUTO)	<b>3</b> = HAND-O-AUTO
	<b>38</b> = 3-pos. Maint., Spring Return from Right (OFF-RUN-START)	<b>4</b> = LOCAL-REMOTE
	Switch arrangements 4 pole	<b>5</b> = STOP-RUN-START
	<b>102</b> = 2-pos. OFF-ON	<b>6</b> = O - I
	<b>106</b> = 2-pos. LOCAL-REMOTE	<b>7</b> = blank one line text
	<b>119</b> = 3-pos. HOA	<b>8</b> = blank two lines text
	For more switching arrangements see pgs. F11 and F12.	<b>9</b> = special (specify)

#### ILLUMINATED PUSHBUTTONS

Spring Return	Colors	Contact type	Legend
<b>SR</b> =	red	<b>X</b> = 1 N.O.	Same # as pushbuttons
<b>SG</b> =	green	<b>Y</b> = 1 N.C.	
<b>SA</b> =	amber	<b>U</b> = 1 N.O. / 1 N.C.	
<b>SW</b> =	white	<b>O</b> = 2 N.O.	
<b>SB</b> =	blue	<b>C</b> = 2 N.C.	

#### PUSHBUTTON LOCKOUTS/GUARDS

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

#### POTENTIOMETERS

Dial Increments	Resistance (Ohm) Range
<b>P1</b> = 0-10 scale	<b>01</b> = 100Ω <b>06</b> = 4.7 kΩ <b>11</b> = 220 kΩ
<b>P2</b> = 0-100 scale	<b>02</b> = 220Ω <b>07</b> = 10 kΩ <b>12</b> = 470 kΩ
<b>P6</b> = 0-6 scale	<b>03</b> = 470Ω <b>08</b> = 22 kΩ <b>13</b> = 1 MΩ
	<b>04</b> = 1 kΩ <b>09</b> = 47 kΩ <b>14</b> = 2.2 MΩ
	<b>05</b> = 2.2 kΩ <b>10</b> = 100 kΩ <b>15</b> = 4.7 MΩ

#### AMMETERS

Direct reading (2X overload): <b>AD....</b>	Scales
	<b>0-0.02/0.04A</b>
	<b>0-1/2A</b>
	<b>0-4/8A</b>
	<b>0-10/20A</b>
	<b>0-15/30A</b>
Indirect reading for Current Transformer (5X overload):	
<b>A1....</b> ← For 1 AMP C.T.	<b>0-1/5</b> <b>0-50/250</b>
	<b>0-2/10</b> <b>0-75/375</b>
	<b>0-5/25</b> <b>0-100/500</b>
	<b>0-10/50</b> <b>0-150/750</b>
	<b>0-15/75</b> <b>0-200/1000</b>
or	<b>0-20/100</b> <b>0-250/1250</b>
<b>A5....</b> ← For 5 AMP C.T.	<b>0-30/150</b> <b>0-300/1500</b>
	<b>0-40/200</b>

#### 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.

STAHL

## APPROVALS

 LISTED - FILE No. E182378

 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.



## Ordering Information








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

① Only possible under double pushbutton 23 in enclosures 12, 54 & 64.

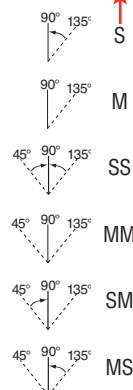


### SELECTOR SWITCH ACTUATORS

#### Ordering Information

ACTUATOR DESCRIPTION	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE		
		CONTACT BLOCK(S)	ACTUATOR CODE	LEGEND
 <b>Key Operated Switch - 2 Positions</b> Maintained action. Key removable in both positions.	<b>8602A0008-1-2-r-V-MS1</b>		* __2SK__	0 = none
			__2MK__	1 = OFF-ON
 <b>Key Operated Switch - 3 Positions</b> Maintained action. Key removable in all positions.	<b>8602A0008-1-3-rr-V-MS1</b>	X = 1 x NO	* __3SSK__	2 = ON-OFF
			__3MMK__	3 = HAND-OFF-AUTO
			__3SMK__	
			__3MSK__	
 <b>Rotary Actuator 2 Positions</b> Maintained Non-lockable	<b>8602A0726-1-2-r</b>	Y = 1 x NC	__2SN__	4 = LOCAL-REMOTE
			__2MN__	
 <b>Rotary Actuator 3 Positions</b> Maintained Non-lockable	<b>8602A0726-1-3-rr-V</b>	U = 1 NO + 1 NC	__3SSN__	5 = STOP-RUN-START
			__3MMN__	
			__3SMN__	6 = 0 - I
			__3MSN__	
 <b>Rotary Actuator 2 Positions</b> Maintained Padlockable in center	<b>8602A0727-1-2-r-V</b>	O = 2 x NO	__2SL__	7 = blank, one-line text
			__2ML__	8 = blank, two-lines text
 <b>Rotary Actuator 3 Positions</b> Maintained Padlockable in center	<b>8602A0727-1-3-rr-V</b>	C = 2 x NC	__3SSL__	9 = special (specify)
			__3MML__	
			__3SML__	
			__3MSL__	

Replacement actuators include parts to convert maintained positions into spring return and to convert key removable positions into non-removable positions.



\* Standard:  
Key removable in all maintained positions.  
Key not removable in all spring return positions.



#### APPROVALS

UL LISTED - FILE No. E182378

SF CERTIFIED - FILE No. LR99480-26

Ex PTB 01 ATEX 1129 U



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## APPROVALS

UL LISTED - FILE No. E182378

LISTED

SP

CERTIFIED - FILE No. LR99480-26

Ex

PTB 00 ATEX 1031U

The contact block Series 8082 are available in two versions.

- 1 NO
- 1 NC

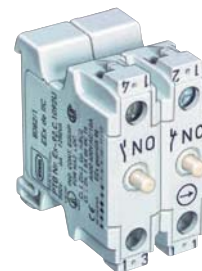
Each block is made of polyamide and designed to contain an internal explosion.

The terminals are designed to increased safety requirements

## 8082 CONTACT BLOCK

### Ordering Information

DESCRIPTION	CONTACT SYMBOL		INDIVIDUAL ORDER CATALOG NUMBER
	IEC	NEMA	
Single contact block, 1 NC			8082/1-1-00
Single contact block, 1 NO			8082/1-2-00
Lockout Terminal, 1 NC			8082/1-1-01



### Technical Data

	NEC/CEC	IEC
Rated Voltage	600VAC	500VAC
Continuous Current	10A	6A
Terminals	12AWG	2.5mm <sup>2</sup>
Mechanical Life	≥ 10 <sup>6</sup> operations	
Electrical Life	≥ 10 <sup>6</sup> operations	
Housing Material	polyamide	
Contact Material	silver plated	
Lowest Energy	50mA. @ 12VAC/DC*	

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



## APPROVALS

UL LISTED - FILE No. E182378

LISTED

SP

CERTIFIED - FILE No. LR99480-26

Ex

PTB 01 ATEX 1160 U

The rail mounted 8010 Series LED Pilot Light accommodates any voltage from 12 to 254V AC or DC in one compact unit!

High intensity LED's provide superior illumination levels that are easily viewable in direct sunlight from the front or side.

Long life & low temperature make these ideal for hazardous location applications.

## 8010 LED Pilot Light

### Ordering Information

	COLORS	SYMBOL		INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
		IEC	NEMA		
PILOT LIGHT	white			8010/2-01-W	Included in ordering code below.
BEZEL WITH COLORED LENS	red			86 028 03 58 7 AA	PLR
	amber			86 028 03 58 7 AB	PLA
	green			86 028 03 58 7 AC	PLG
	clear			86 028 03 58 7 AD	PLW
	blue			86 028 03 58 7 AE	PLB

See page F14 for legend plate ordering information.



### Technical Data

	NEC/CEC/IEC
Rated Voltage	12V-10% . . . 254V+6%
Frequency	DC . . . 60Hz.
Rated Current	max. 15mA.
Rated Power	max. 15mW
Electrical Life	100,000 hrs (11yrs)
Colors	Red, Amber, Green, White, Blue
Terminals	2.5mm <sup>2</sup> (12AWG)
Housing Material	polyamide

## 8082/8010 ILLUMINATED PUSHBUTTON

### Ordering Information

	CONTACT SYMBOL		COLOR	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
	IEC	NEMA			
Contact Arrangement					
1NC + 1 NO			N/A	8602-A0737-1	U
2 NC			N/A	8602-A0738-1	C
2 NO			N/A	8602-A0739-1	O
Actuator					
Spring Return	Includes red, green, amber, white and blue color filter disks		red green amber white blue	8602-A0735-1	SR SG SA SW SB

### Technical Data

8010 Pilot Light	NEC/CEC/IEC	
Rated Voltage	12V-10% . . . 254V+6%	
Frequency	DC . . . 60Hz.	
Rated Current	max. 15mA.	
Rated Power	max. 15mW	
Electrical Life	100,000 hrs. (11 yrs.)	
Colors	Red, Green, Amber, White, Blue,	
Terminals	12AWG (2.5mm <sup>2</sup> )	
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.



### APPROVALS

**UL LISTED - FILE No. E182378**

**CERTIFIED - FILE No. LR99480-26**

**PTB 00 ATEX 1031U**  
**PTB 01 ATEX 1160 U**  
**PTB 01 ATEX 1129 U**

Series 8082/8010 Illuminated Pushbuttons have contact blocks and LED pilot lights combined under one actuator. The possible contact blocks are either 2 N.C., or 2 N.O., or 1 N.O. and 1 N.C. By wiring the individual components appropriately, different switching and indicating functions can be achieved.

The lamps may be operated at any voltage between 12V and 254 V AC/DC. They are available in red, green, amber, white and blue.



STAHL

## APPROVALS

UL LISTED - FILE No. E182378

SF CERTIFIED - FILE No. LR99480-26

CEX PTB 00 ATEX 1111U

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.



Insert Actuator Code  
L-Large Lockable  
S-Small Lockable  
N-Small Non-Locking

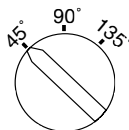
## 8008 CONTROL SWITCHES

### 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° left position, 90° center position and 135° right position.



The first contact, designated by terminal numbers 13-14 is open when the handle is in the left position (45°) [blank square], it is also open in the center position (90°) [blank square], and is closed in the right position (135°) [square marked with an X].

The second contact, designated by terminal numbers 23-24 is open in the left position (45°) [blank square] and is closed in the center position (90°) [square marked with an X]. At the right position (135°) 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

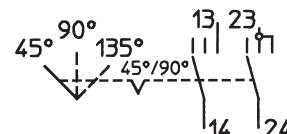
	NEC/CEC	IEC
Rated Voltage	600V	690VAC
Rated Current	10A	16A
Mechanical Life	≥ 10 <sup>5</sup> Operations	
Electrical Life	≥ 10 <sup>5</sup> Operations	
Terminals	12AWG	2.5mm <sup>2</sup>

MAKE  
BREAK  
DIAGRAM

CONTACT  
ARRANGEMENT

ORDERING  
CODE 038

	13	23
45°		
90°		X
135°	X	X
	14	24



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

### Ordering Information, 2 Pole Switches

MAKE BREAK DIAGRAMS	CONTACT ARRANGEMENTS	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE																				
<table><tr><td></td><td>13</td><td>23</td></tr><tr><td>45°</td><td></td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>14</td><td>24</td></tr></table>		13	23	45°			135°	X	X		14	24		8008/2-002	02								
	13	23																					
45°																							
135°	X	X																					
	14	24																					
<table><tr><td></td><td>11</td><td>21</td></tr><tr><td>45°</td><td>X</td><td>X</td></tr><tr><td>135°</td><td></td><td></td></tr><tr><td></td><td>12</td><td>22</td></tr></table>		11	21	45°	X	X	135°				12	22		8008/2-005	05								
	11	21																					
45°	X	X																					
135°																							
	12	22																					
<table><tr><td></td><td>11</td><td>23</td></tr><tr><td>45°</td><td>X</td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>12</td><td>24</td></tr></table>		11	23	45°	X		135°	X	X		12	24		8008/2-016	16								
	11	23																					
45°	X																						
135°	X	X																					
	12	24																					
<table><tr><td></td><td>11</td><td>23</td></tr><tr><td>45°</td><td>X</td><td></td></tr><tr><td>90°</td><td></td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>12</td><td>24</td></tr></table>		11	23	45°	X		90°			135°	X	X		12	24		8008/2-027	27					
	11	23																					
45°	X																						
90°																							
135°	X	X																					
	12	24																					
<table><tr><td>68°</td><td></td><td>11</td><td>23</td></tr><tr><td>45°</td><td>X</td><td></td><td></td></tr><tr><td>90°</td><td>X</td><td></td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td><td></td></tr><tr><td></td><td>12</td><td>24</td><td></td></tr></table>	68°		11	23	45°	X			90°	X			135°	X	X			12	24			8008/2-034	34
68°		11	23																				
45°	X																						
90°	X																						
135°	X	X																					
	12	24																					
<table><tr><td></td><td>13</td><td>23</td></tr><tr><td>45°</td><td></td><td></td></tr><tr><td>90°</td><td>X</td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>14</td><td>24</td></tr></table>		13	23	45°			90°	X		135°	X	X		14	24		8008/2-038	38					
	13	23																					
45°																							
90°	X																						
135°	X	X																					
	14	24																					
<table><tr><td></td><td>13</td><td>23</td></tr><tr><td>45°</td><td>X</td><td></td></tr><tr><td>90°</td><td>X</td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>14</td><td>24</td></tr></table>		13	23	45°	X		90°	X		135°	X	X		14	24		8008/2-040	40					
	13	23																					
45°	X																						
90°	X																						
135°	X	X																					
	14	24																					
<table><tr><td></td><td>13</td><td>23</td></tr><tr><td>45°</td><td>X</td><td></td></tr><tr><td>90°</td><td></td><td></td></tr><tr><td>135°</td><td>X</td><td>X</td></tr><tr><td></td><td>14</td><td>24</td></tr></table>		13	23	45°	X		90°			135°	X	X		14	24		8008/2-051	51					
	13	23																					
45°	X																						
90°																							
135°	X	X																					
	14	24																					

(See Switch handle ordering table on next page).

### Ordering Information, 4 Pole Switches

MAKE BREAK DIAGRAM	CONTACT ARRANGEMENT	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
		8008/2-102	102
		8008/2-106	106
		8008/2-109	109
		8008/2-110	110
		8008/2-113	113
		8008/2-119	119
		8008/2-127	127
		8008/2-139	139
		8008/2-148	148

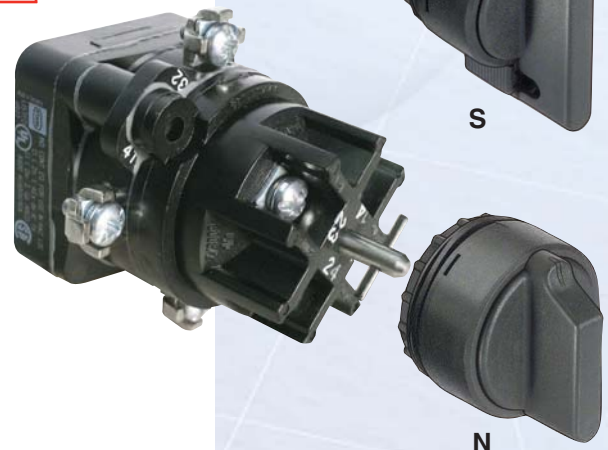
### Control Switch Handles

DESCRIPTION	TYPE	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
Small Rotary Actuator	not lockable	8602A0732-1	N
	lockable, one position	8602A0734-1	S
Large Rotary Actuator*	lockable	8602A0731-1-ss	L

\* Can only be installed in enclosure codes 12, 73, 54 and 94  
(See page F14 for legend plate ordering information.)

Insert Actuator Code

L - Large Lockable  
S - Small Lockable  
N - Small Non-Locking



STAHL

### APPROVALS

UL LISTED - FILE E182378

SP CERTIFIED - FILE LR99480-26

Ex PTB 00 ATEX 1111U

The most common 4-pole switching arrangements are illustrated on this page. For more configurations, consult factory.

Since the 4 pole switches are deeper than the 2 pole, they only can be mounted into deep enclosures with the assembly codes 73, 84 and 94.



## APPROVALS

UL LISTED - FILE E182378

SF CERTIFIED - FILE 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

UL Applied For

SF CERTIFIED - FILE LR99480-26

Ex 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.

# Control Components

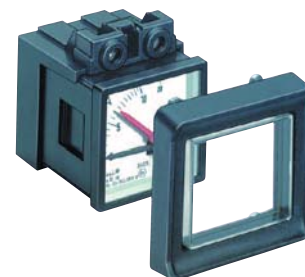
## 8405 AMMETERS

### Ordering Information

TYPE	MEASURING RANGE	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
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/ 2 and 5X Overload	8405/2-1	A1 _ _ _ _
	5A Secondary/ 2 and 5X Overload	8405/2-5	A5 _ _ _ _
	<b>SCALE CODES</b> <div> <div>1/5</div> <div>2/10</div> <div>5/25</div> <div>10/50</div> <div>15/75</div> </div> <div> <div>20/100</div> <div>30/150</div> <div>40/200</div> <div>50/250</div> <div>75/375</div> </div> <div> <div>100/500</div> <div>150/750</div> <div>200/1000</div> <div>250/1250</div> <div>300/1500</div> </div>		
BEZEL	2.5" x 2.5" (64 x 64mm)	86 038 01 58 7	Included in ordering code above

### Technical Data

	NEC/CEC	IEC
Rated Insulated Voltage:	600V	690V
Movement:	Iron Core	
Power Consumption:	0.2W Max.	
Frequency	15-100 Hz. DC available	
Accuracy	2.5% of full range	
Terminals	12AWG	2.5mm <sup>2</sup>



## 8208 POTENTIOMETERS FOR HAZARDOUS LOCATIONS

### Ordering Information

	INDIVIDUAL ORDER CATALOG NUMBER	ASSEMBLY CODE
<b>Potentiometer</b>		
resistance values in ohms	8208/24-08-S002- _ _	01 = 100Ω    06 = 4.7 kΩ    11 = 220 kΩ 02 = 220Ω    07 = 10 kΩ    12 = 470 kΩ 03 = 470Ω    08 = 22 kΩ    13 = 1 MΩ 04 = 1 kΩ    09 = 47 kΩ    14 = 2.2 MΩ 05 = 2.2 kΩ    10 = 100 kΩ    15 = 4.7 MΩ
<b>Actuator</b>		
with dial scale 0-6	86 028 06 16 7 AA	P6
0-10	86 028 06 16 7 AB	P1
0-100	86 028 06 16 7 AC	P2

### 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:	±30%
Material of resistor:	carbon
Adjustment scale:	270 degrees
Terminals:	12AWG (2.5mm <sup>2</sup> )



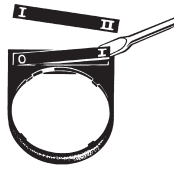


## NAME PLATES AND LEGEND DISCS



### Pushbutton Legend Disks Ordering

DESCRIPTION	CATALOG NUMBER
Blank, Legend Disk Blue	86 029 34 85 6
Blank, Legend Disk Yellow	86 029 35 85 6
Blank, Legend Disk Red	86 029 30 85 6
Blank, Legend Disk Green	86 029 31 85 6
Blank, Legend Disk White	86 029 33 85 6
Blank, Legend Disk Black	86 029 32 85 6
Red, Legend Disk "STOP"	86 029 03 84 0
Green, Legend Disc "START"	86 029 09 84 0
Red, Legend Disk "OFF"	86 029 05 84 0
Green, Legend Disk "ON"	86 029 06 84 0
Green, Legend Disk "I"	86 029 07 84 0
Green, Legend Disk "II"	86 029 08 84 0
Red, Legend Disk "O"	86 029 02 84 0
Red, Legend Disk Arrow	86 029 01 84 0
Black, Legend Disk "UP"	86 029 32 85 0 "UP"
Black, Legend Disk "DOWN"	86 029 32 85 0 "DOWN"
Black, Legend Disk "RUN"	86 029 32 85 0 "RUN"
Black, Legend Disk "SLOW"	86 029 32 85 0 "SLOW"
Black, Legend Disk "FAST"	86 029 32 85 0 "FAST"
Black, Legend Disk "CLOSE"	86 029 25 84 0
Black, Legend Disk "OPEN"	86 029 23 84 0
Black, Legend Disk "AUTO"	86 029 32 85 0 "AUTO"
Black, Legend Disk "RIGHT"	86 029 32 85 0 "RIGHT"
Black, Legend Disk "LEFT"	86 029 32 85 0 "LEFT"
Black, Legend Disk "HAND"	86 029 32 85 0 "HAND"
Black, Legend Disk "RESET"	86 029 32 85 0 "RESET"
Black, Legend Disk "OFF-ON"	86 029 32 85 0 "OFF-ON"
Black, Legend Disk Arrow	86 029 11 84 0
Black, Legend Disk Arrow	86 029 12 84 0



### Legend Plates Ordering

DESCRIPTION	CATALOG NUMBER
Small Legend Frame	86 029 04 80 0
Inserts:	
POS. 1 POS. 2 POS. 3	
HAND 0 AUTO	86 029 09 85 0
OFF • ON	86 029 08 85 0
I 0 I	86 029 07 85 0
I 0 II	86 029 06 85 0
0 I II	86 029 05 85 0
0 • I	86 029 04 85 0
0/OFF I	86 029 02 85 0
0/OFF I/ON	86 029 01 85 0
Blank- 1 line space	86 029 10 85 0
Large Legend Frame	86 029 07 80 0
Blank- 2 line space	86 029 24 85 0

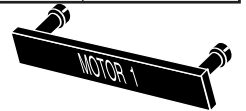
### Legend Disks for Large Control Switch Handle\* Ordering

DESCRIPTION	CATALOG NUMBER
Blank	86 029 23 85 6
OFF-ON	86 029 22 85 0
HAND-O-AUTO	86 029 18 85 0

### Label Ordering

DESCRIPTION	CATALOG NUMBER
Station Identification Label	80 400 01 85 0

\* Must be installed prior to handle assembly



### Accessories

Description	Catalog Number	Assembly Code
Device close-up plug	8602801587	P733
Actuator wrench	8030901400	N/A
Momentary PB 01, 02 lockout	8602A0754	LK01
Momentary PB 01, 02 exclusion	8602A0755	LK02
Small mushroom PB 03, 10, 12 & 13 guard	8602A0751	LK03
Small mushroom 03, 10, 12 & 13 lockout	8602A0752	LK10
Mushrooms 10, 15 pin & chain lockout	8602A0756	LK11
Small mushroom 03, 10, 12 & 13 exclusion	8602A0758	LK20
Momentary PB 01, 02 exclusion	8602A0753	LK21
Double PB 23 lockout	8802A0757	LK23

### Conduit & Cable Entry Parts Ordering

DESCRIPTION	CATALOG NUMBER
<b>Hub Assemblies for FRP Housings</b>	
Back Plate M20	80 400 07 55 0
Back Plate M25	80 400 08 55 0
Back Plate 1/2"	80 400 10 55 0
Back Plate 3/4"	80 400 09 55 0
3/4" NPT Fixed Hub	82 959 39 37 0
Cable Gland, plastic M25	8161/5-M25-17
Close-up Plug M25	8290/3-M25
Locknut M25	81 610 03 91 0
Breathing Gland, includes locknut M25	81 620 04 02 0
Breathing Gland, 3/4"	8162/9
Reducer, 3/4" - 1/2" NPT	R-21
Coupling Kit M25	80 408 06 29 0



88 000 07 54 0 Installed



88 000 07 52 0



Conduit Hub Assembly



Actuator Wrench

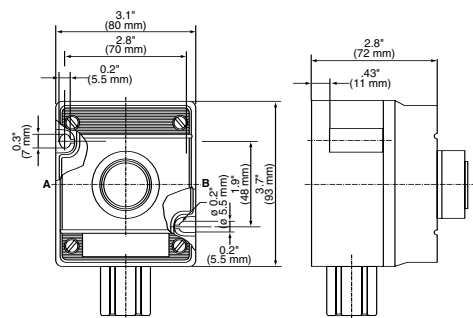


Breather Drain M25

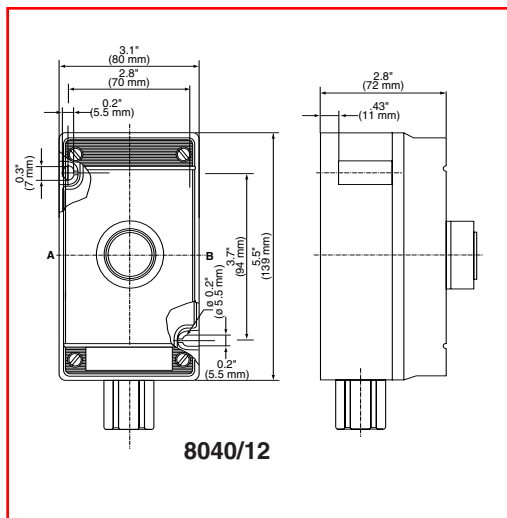


Breather Drain

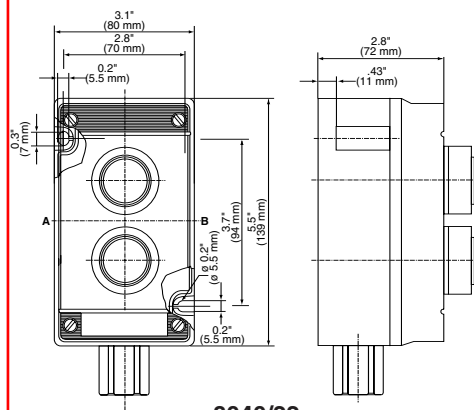
## DIMENSIONS



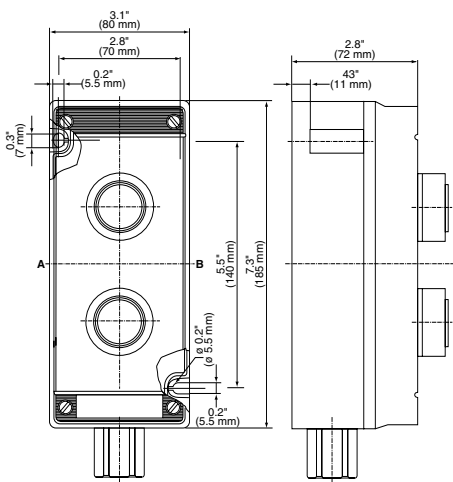
**Compact 8040/11**



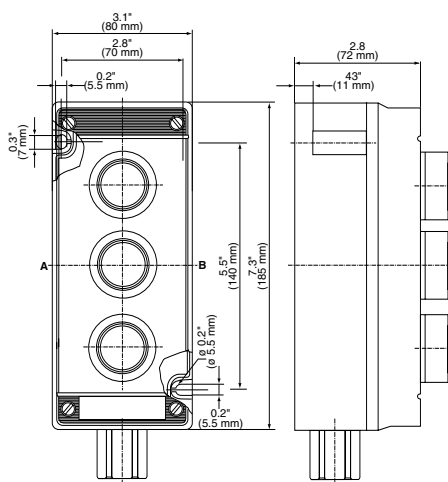
**8040/12**



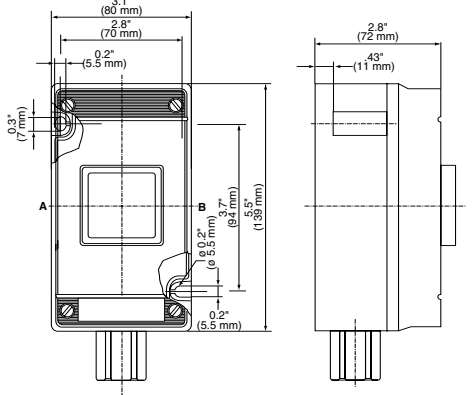
**8040/22**



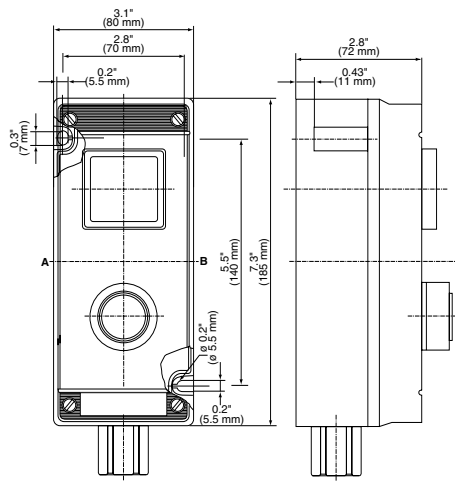
**8040/64**



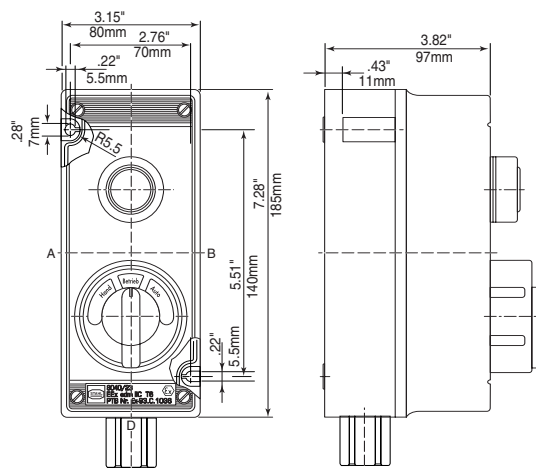
**8040/33**



**8040/42**



**8040/54**



**8040/73,84,94**