Explosion Protected Stainless Steel Control Stations 8150 Series

CONTROL & SIGNALING STATIONS

8150 Features:

- Attractive space efficient design
- Enclosures made of stainless steel for excellent corrosion resistance
- Snap-on mounting of individual components
- High illumination LED pilot lights from 12 V to 254 V, AC or DC with an operating lifetime over 100,000 hours
- A variety of pushbuttons, control switches and illuminated pushbuttons
- Durable silicone foamed 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
- Globally Certified, one part number provides Class I, Division 2, ATEX and IECEx Zone 1 certifications
- Also available in EAC, INMETRO, KGS, and others

Explosion Protected Stainless Steel Control Stations 8150 Series

CONTROL & SIGNALING STATIONS

The ConSig 8150 Series is a new generation of control and signaling stations utilizing explosion protected components with stainless steel enclosures 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.

CLASSIFICATIONS

NEC- Class I, Zones 1 & 2
AEx db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III Enclosure
Type 3,4 & 4X; IP66

CEC- Class I, Zones 1 & 2
Ex db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III

File No. E182378

ATEX
II 2 G Ex db eb IIC T6 Gb
II 2 D Ex tb IIIC T80˚C - IP66

IECEx
Ex db eb IIC T6 Gb
Ex tb IIIC T80˚C - IP66

Ambient Temperature Range:
+40°C (+104°F) Max.
–50°C (–58°F) Min.

Special Ambient Temperature Range:*
*Consult Factory

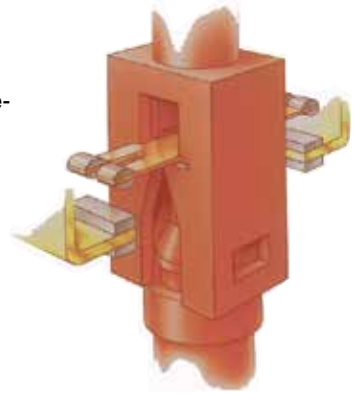
316L Stainless Steel with silicone foamed recessed gasketing.

Enclosures

ConSig 8150 Series can be specified as one, two or three gang configurations and is made of stainless steel. Enclosure gasketing is durable silicone foamed 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 pushbutton and illuminated pushbutton.



LED Pilot Lights

ConSig 8150 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 V AC / DC. 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 Pushbuttons

Illuminated pushbuttons 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-on lenses in red, green, amber, white, and blue.

316 Stainless Steel Construction for Excellent Corrosion Resistance

Captive Stainless Steel Tri-Drive Screws No Loose Bolts

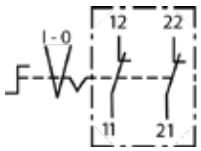
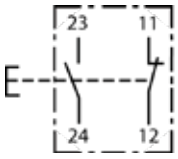
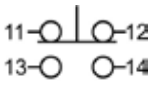
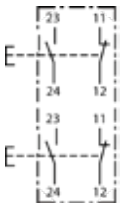
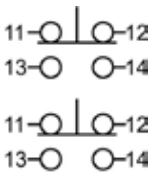
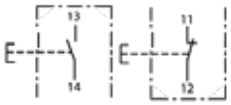
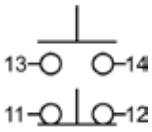
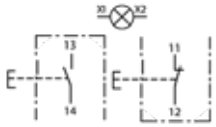
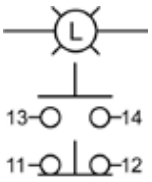
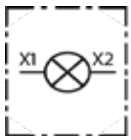
Choose From One Of Hundreds of Operator Combinations

Globally Certified For:
Class I, Division 2, Zone 1
ATEX / IECEx Zone 1
Available in:
CU-TR, INMETRO
KGS, and more upon requests

No Conduit Seals Required

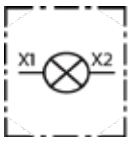
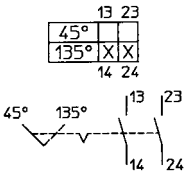
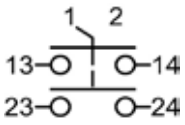
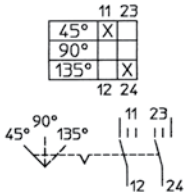
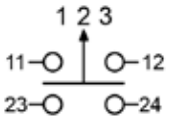
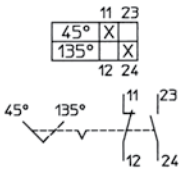
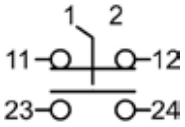
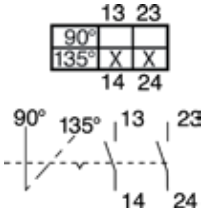
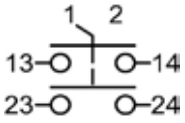
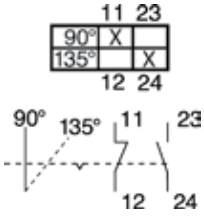
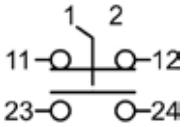
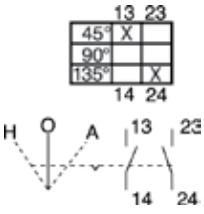
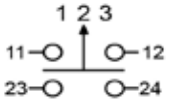
3/4" Standard NPT Conduit Hub

Ordering Information

	Function		Contact Symbols		Catalog Number	Article / SAP Number
			IEC	NEMA		
	"E-STOP" RED JUMBO Mushroom Maintained 2 N.C.				8150/5-124-C150	**285432**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.				8150/5-124-U011	**285446**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.	"STOP" Momentary Red Pushbutton 1 N.O. / 1 N.C.			8150/5-224-U011-U012	**285439**
	"START" Momentary Double PB 1 N.O.	"STOP" Momentary Double PB 1 N.C.			8150/5-124-U2312	**285437**
	"PILOT LIGHT" RED LED 12 V- 254 V AC / DC	"START-STOP" Momentary Double PB 1 N.O. / 1 N.C.			8150/5-224-PLR0-U2312	**285438**
	"PILOT LIGHT" RED LED 12 V - 254 V AC / DC				8150/5-124-PLR0	**285436**

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

Ordering Information

	Function	Contact Symbols		Catalog Number	Article / SAP Number
		IEC	NEMA		
	"PILOT LIGHT" GREEN LED 12 V - 254 V AC / DC			8150/5-124-PLG0	**285435**
	"OFF- ON" Maintained Control Switch 2-Pos. / 2-Pole 10 amps			8150/5-124-L021	**285443**
	"H - O - A" Maintained Control Switch 3-Pos. / 2- Pole 10 amps			8150/5-124-L273	**285434**
	"LOCAL REMOTE" Maintained Control Switch 2-Pos. / 2-Pole 10 amps			8150/5-124-L164	**285445**
	"OFF - ON" Maintained Selector Switch 2-Positions 10 amps			8150/5-124-02MN1	**285441**
	"LOCAL REMOTE" Maintained Selector Switch 2-Positions 10 amps			8150/5-124-U2MN4	**285442**
	"H - O - A" Maintained Selector Switch 3-Positions 10 amps			8150/5-124-03MMN3	**285433**

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

Explosion Protected Stainless Steel Control Stations
8150 Series

CUSTOM CONFIGURATION LOGIC

Start Here

ConSig	Enclosure	
Control Station	Enclosure Type (__ __)	Entry or Entries (__)
8150/5-		

12 1-device

22 2-device

33 3-device

Pilot lights and pushbuttons only

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
44 = 2x 3/4" Hub Bottom Feed
5 = 3/4" Hub Feed-Thru

Compression Gland - FOR IECEx / ATEX only
Non-Metallic Cable Glands
J = M20 Gland Bottom Feed
K = M20 Gland Feed-Through
6 = M25 Gland Top Feed
7 = M25 Gland Bottom Feed
8 = M25 Gland Feed-Thru
9 = Special (specify)*
* For additional options regarding these entries see the Accessories Section in the catalog.

CLASSIFICATIONS

NEC- Class I, Zones 1 & 2
AEx db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III Enclosure
Type 3,4 & 4X; IP66

CEC- Class I, Zones 1 & 2
Ex db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III

c UL us LISTED File No. E182378

ATEX
II 2 G Ex db eb IIC T6 Gb
II 2 D Ex tb IIIC T80˚C - IP66

IECEx
Ex db eb IIC T6 Gb
Ex tb IIIC T80˚C - IP66

Ambient Temperature Range:
+40°C (+104°F) Max.
–50°C (–58°F) Min.

Special Ambient Temperature Range:*
*Consult Factory

316L stainless steel with silicone foamed recessed gasketing.

FEATURES

The 8150 Series of control & signaling stations with its many enclosure sizes and components is uniquely flexible.

How to use configuration logic tables:

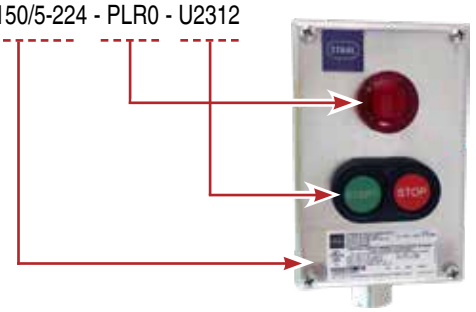
Fill in the blanks from left to right in the light blue striped fields located on the top of pages F5 and F6 using the information stated below in the individual fields.

Step 1: Select enclosure type
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-device station.
Step 5: Repeat step 3 when configuring a three-device station.

CUSTOM CONFIGURATION LOGIC

Example

8150/5-224 - PLR0 - U2312



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

Pushbuttons

Contact type	Actuator type	Legend
X = 1 N.O. **Y** = 1 N.C. **U** = 1 N.O. / 1 N.C. **O** = 2 N.O. **C** = 2 N.C. **M** = 2 N.C. / 1 N.O. **W** = 1 N.C. / 2 N.O. **T** = 3 N.C. **R** = 3 N.O. **D*** = 2 N.O. / 2 N.C. *For four contact block arrangements please confirm layout with the factory.	**01** = Standard Momentary **03** = Black Momentary Small Mushroom **09** = Keyed E-STOP Red Mushroom Maintained **10** = E-STOP Red Small Mushroom Maintained **12** = Black Small Mushroom Maintained **15** = E-STOP Red Jumbo Mushroom Maintained **23** = Double Pushbutton Momentary **P733** = Device Close-up Plug	0 = none 1 = START 2 = STOP 3 = ON 4 = OFF 5 = RUN 6 = RESET 7 = OPEN 8 = CLOSE 9 = special (specify)

Pushbutton Lockouts/Guards

LK01 = Momentary Lockout (01)
LK02 = Momentary Exclusion (01)
LK03 = Small Yellow Mushroom Guard (09, 10 & 12)
LK10 = Small Mushroom Lockout (10 & 12)
LK11 = Small Mushroom Pin & Chain Lockout (10 & 12)
LK20 = Small Mushroom Exclusion Lockout (03, 10 & 12)
LK21 = Momentary Pushbutton (01) exclusion

Selector Switches

X = 1 N.O. **Y** = 1 N.C. **U** = 1 N.O./ 1 N.C. **O** = 2 N.O. **C** = 2 N.C.	**2SK** **2MK** **3SSK** **3MMK** **3SMK** **3MSK**	**2SN** **2MN** **3SSN** **3MMN** **3SMN** **3MSN**	**2SL** **2ML** **3SSL** **3MML** **3SML** **3MSL**	**Note:** For Actuator Descriptions (see page F24)

Pilot Lights

PL	**Color** **A** = amber **B** = blue **G** = green **R** = red **W** = white	**Legend** Same # as pushbutton

Control Switches

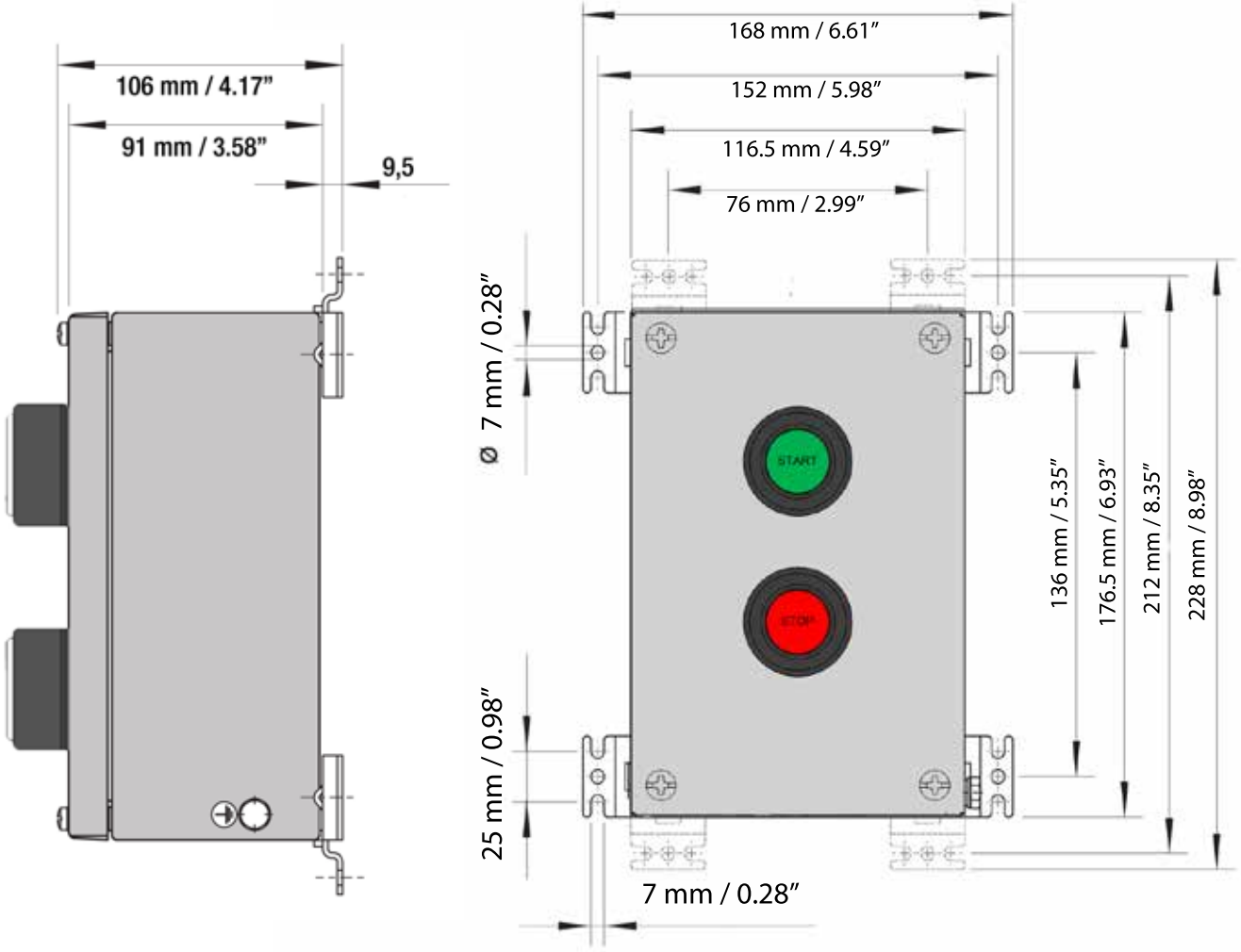
Actuator type	Switch arrangements 2-pole / 4-pole	Legend
N = Non-lockable **S** = Small-lockable **L** = Large lockable	**02** = 2-pos. Maintained (OFF-ON) **05** = 2-pos. Maintained (ON-OFF) **16** = 2-pos. Maintained (LOCAL-REMOTE) **27** = 3-pos. Maintained (HAND-O-AUTO) **38** = 3-pos. Maint., Spring Return from Right (OFF-RUN-START) **102** = 2-pos. OFF-ON **106** = 2-pos. LOCAL-REMOTE **119** = 3-pos. HOA For more switching arrangements see pgs.F27 and F28..	**0** = none **1** = OFF-ON **2** = ON-OFF **3** = HAND-O-AUTO **4** = LOCAL-REMOTE **5** = STOP-RUN-START **6** = O - I **7** = blank one line text **8** = blank two lines text **9** = special (specify)

Illuminated Pushbuttons

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

Explosion Protected Stainless Steel Control Stations 8150 Series

DIMENSIONS



ConSig 8150/5-V40-CSS Series

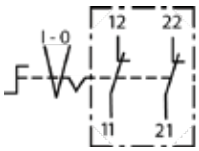
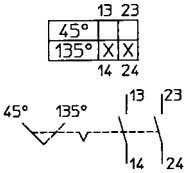
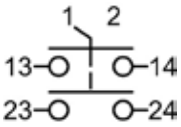
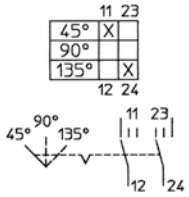
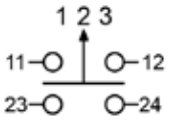
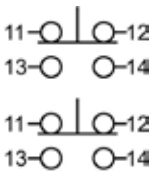
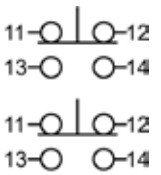
CONTROL & SIGNALING STATIONS

8150/5-V40-CSS Features:

- Enclosures are designed with mounting dimensions of key North American Configurations
- Enclosures made of 316L stainless steel for excellent corrosion resistance
- Snap-on mounting of individual components
- High illumination LED pilot light from 12 V to 254 V, AC or DC with an operating lifetime over 100,000 hours
- A variety of pushbuttons, control switches and illuminated pushbuttons
- Durable silicone foamed enclosure gaskets are concealed to protect from damage or premature aging by UV light and chemicals
- Globally Certified, one part number provides Class I, Division 2, ATEX and IECEx Zone 1 certifications
- Also available in EAC, INMETRO, KGS, and others

- No Conduit Seals Required
- Easy Troubleshooting
- Enhanced Electrical Safety
- Lockout Devices Available

Ordering Information

	Function		Contact Symbols		Catalog Number	Article / SAP Number
			IEC	NEMA		
	"E-STOP" RED JUMBO Mushroom Maintained 2 N.C.				8150/5-V40-CSS-124-C150	**301292**
	"OFF - ON" Maintained Control Switch 2-Pos. / 2-Pole 10 amps				8150/5-V40-CSS-124-L021	**301293**
	"H -O-A" Maintained Control Switch 3-Pos. / 2-Pole 10 amps				8150/5-V40-CSS-124-L273	**301294**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.	"STOP" Momentary Red Pushbutton 1 N.O. / 1 N.C.			8150/5-V40-CSS-224-U011-U012	**301295**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.	"STOP" Momentary Red Lockout Pushbutton 1 N.O. / 1 N.C.			8150/5-V40-CSS-224-U011-U012-LK01	**301296**

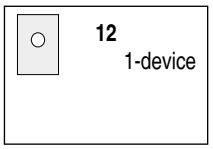
All above stations include one 3/4" hub bottom.

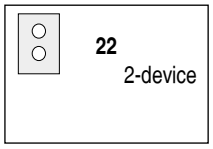
Explosion Protected Stainless Steel Control Stations
8150/5-V40-CSS Series

CUSTOM CONFIGURATION LOGIC

Start Here

ConSig	Enclosure	
Control Station 8150/5-V40-CSS	Enclosure Type (__ __)	Entry or Entries (__)





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
44 = 2x 3/4" Hub Bottom Feed
5 = 3/4" Hub Feed-Thru

Compression Gland - FOR IECEx / ATEX only
Non-Metallic Cable Glands
J = M20 Gland Bottom Feed
K = M20 Gland Feed-Through
6 = M25 Gland Top Feed
7 = M25 Gland Bottom Feed
8 = M25 Gland Feed-Thru
9 = Special (specify)*
* For additional options regarding these entries see the Accessories Section in the catalog.

CLASSIFICATIONS

NEC- Class I, Zones 1 & 2
AEx db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III Enclosure
Type 3,4 & 4X; IP66

CEC- Class I, Zones 1 & 2
Ex db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III

c UL us LISTED File No. E182378

ATEX
II 2 G Ex db eb IIC T6 Gb
II 2 D Ex tb IIIC T80˚C - IP66

IECEx
Ex db eb IIC T6 Gb
Ex tb IIIC T80˚C - IP66

Ambient Temperature Range:
+40°C (+104°F) Max.
–50°C (–58°F) Min.

Special Ambient Temperature Range:*
*Consult Factory

316L stainless steel with silicone foamed recessed gasketing.

FEATURES

The 8150 Series of control & signaling stations with its many enclosure sizes and components is uniquely flexible.

How to use configuration logic tables:

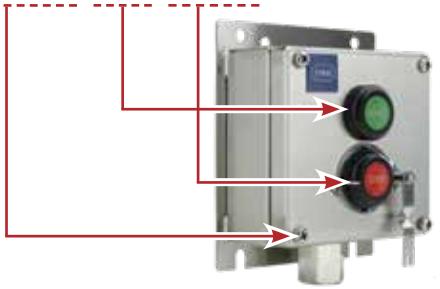
Fill in the blanks from left to right in the light blue striped fields located on the top of pages F11 and F12 using the information stated below in the individual fields.

Step 1: Select enclosure type
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-device station.
Step 5: Repeat step 3 when configuring a three-device station.

CUSTOM CONFIGURATION LOGIC

Example

8150/5-V40-CSS-224 - U011 - U012-LK01



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

Pushbuttons

Contact type	Actuator type	Legend
X = 1 N.O. **Y** = 1 N.C. **U** = 1 N.O. / 1 N.C. **O** = 2 N.O. **C** = 2 N.C. **M** = 2 N.C. / 1 N.O. **W** = 1 N.C. / 2 N.O. **T** = 3 N.C. **R** = 3 N.O. **D*** = 2 N.O. / 2 N.C. *For four contact block arrangements please confirm layout with the factory.	**01** = Standard Momentary **03** = Black Momentary Small Mushroom **09** = Keyed E-STOP Red Mushroom Maintained **10** = E-STOP Red Small Mushroom Maintained **12** = Black Small Mushroom Maintained **15** = E-STOP Red Jumbo Mushroom Maintained **23** = Double Pushbutton Momentary **P733** = Device Close-up Plug	0 = none 1 = START 2 = STOP 3 = ON 4 = OFF 5 = RUN 6 = RESET 7 = OPEN 8 = CLOSE 9 = special (specify)

Selector Switches

X = 1 N.O. **Y** = 1 N.C. **U** = 1 N.O./ 1 N.C. **O** = 2 N.O. **C** = 2 N.C.	**2SK** **2MK** **3SSK** **3MMK** **3SMK** **3MSK**	**2SN** **2MN** **3SSN** **3MMN** **3SMN** **3MSN**	**2SL** **2ML** **3SSL** **3MML** **3SML** **3MSL**	**Note:** For Actuator Descriptions (see page F24)

Pilot Lights

PL	**Color** **A** = amber **B** = blue **G** = green **R** = red **W** = white	**Legend** Same # as pushbutton

Control Switches

Actuator type	Switch arrangements 2-pole / 4-pole	Legend
N = Non-lockable **S** = Small-lockable **L** = Large lockable	**02** = 2-pos. Maintained (OFF-ON) **05** = 2-pos. Maintained (ON-OFF) **16** = 2-pos. Maintained (LOCAL-REMOTE) **27** = 3-pos. Maintained (HAND-O-AUTO) **38** = 3-pos. Maint., Spring Return from Right (OFF-RUN-START) **102** = 2-pos. OFF-ON **106** = 2-pos. LOCAL-REMOTE **119** = 3-pos. HOA For more switching arrangements see pgs.F27 and F28.	**0** = none **1** = OFF-ON **2** = ON-OFF **3** = HAND-O-AUTO **4** = LOCAL-REMOTE **5** = STOP-RUN-START **6** = O - I **7** = blank one line text **8** = blank two lines text **9** = special (specify)

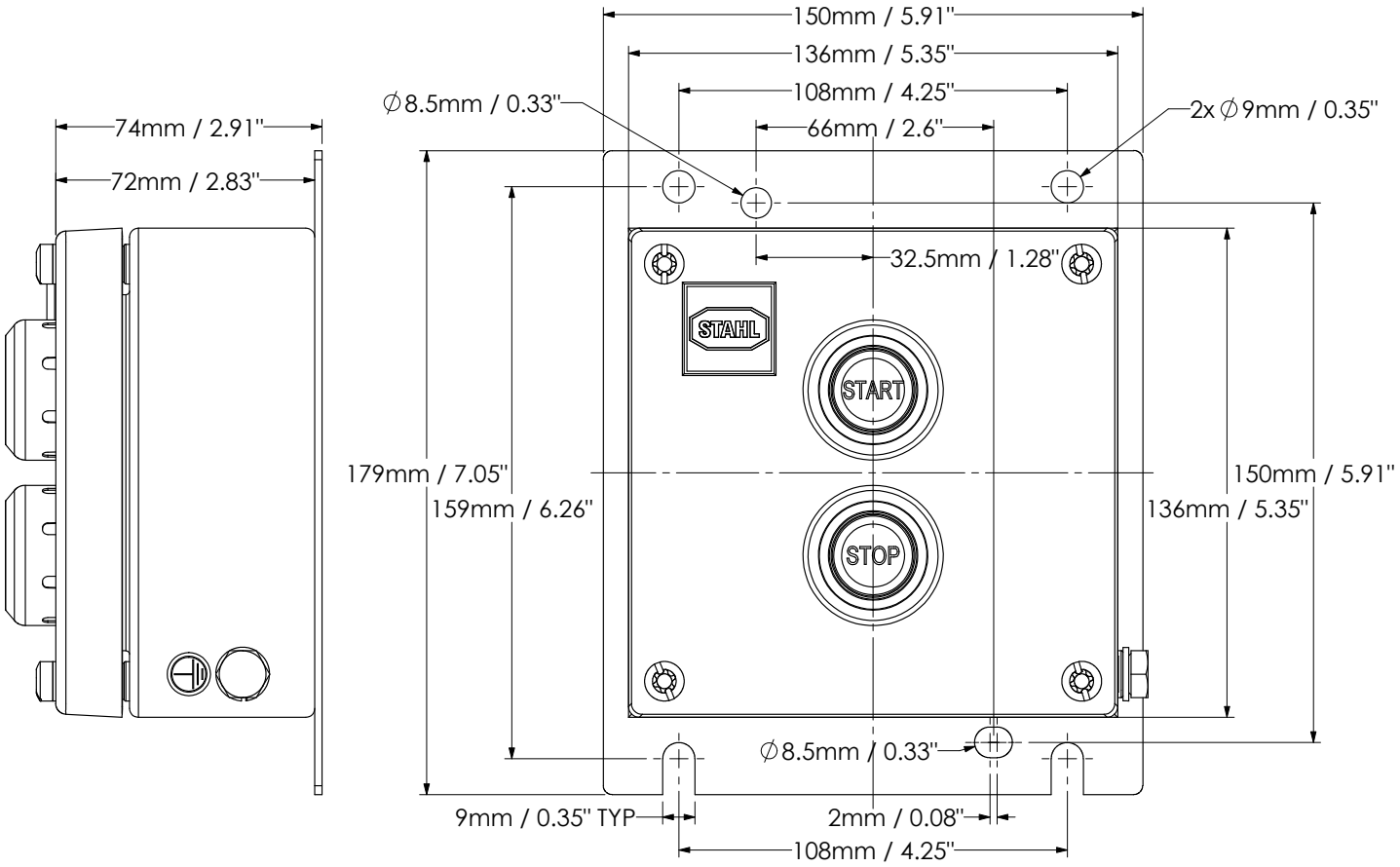
Illuminated Pushbuttons

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

Pushbutton Lockouts/Guards

LK01 = Momentary Lockout (01)
LK02 = Momentary Exclusion (01)
LK03 = Small Yellow Mushroom Guard (09, 10 & 12)
LK10 = Small Mushroom Lockout (10 & 12)
LK11 = Small Mushroom Pin & Chain Lockout (10 & 12)
LK20 = Small Mushroom Exclusion Lockout (03, 10 & 12)
LK21 = Momentary Pushbutton (01) exclusion

DIMENSIONS


74mm / 2.91"
72mm / 2.83"
150mm / 5.91"
136mm / 5.35"
108mm / 4.25"
66mm / 2.6"
∅8.5mm / 0.33"
2x ∅9mm / 0.35"
32.5mm / 1.28"
STAHL
START
STOP
179mm / 7.05"
159mm / 6.26"
150mm / 5.91"
136mm / 5.35"
∅8.5mm / 0.33"
9mm / 0.35" TYP
2mm / 0.08"
108mm / 4.25"

ConSig 8040 Series

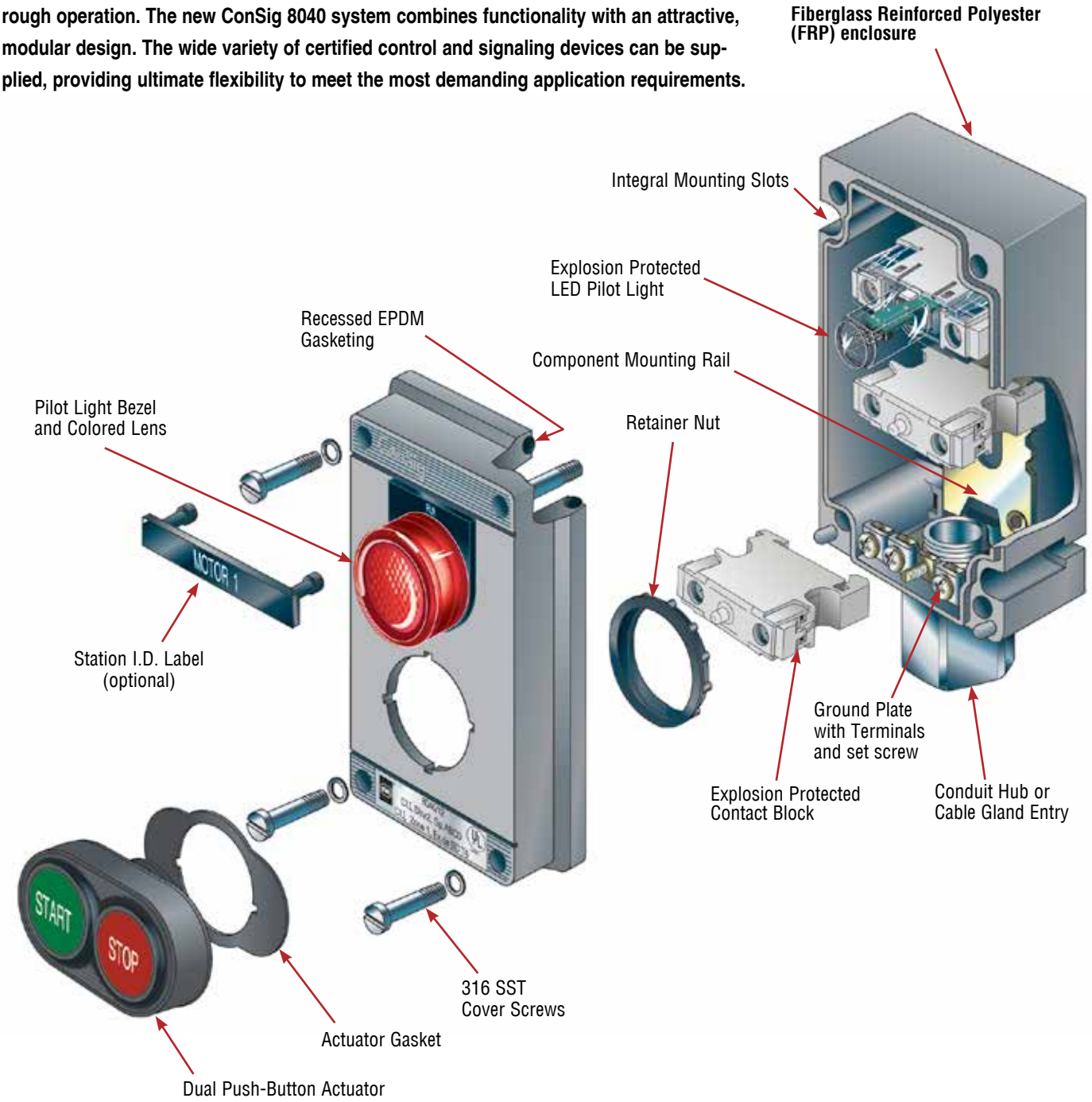
CONTROL & SIGNALING STATIONS

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 12 V to 254 V, AC or DC with an operating life time over 100,000 hours
- A variety of pushbuttons, control switches and illuminated pushbuttons
- Durable EPDM enclosure gaskets are concealed to protect from damage or premature aging by UV light and chemicals
- Fluorsilicate gasket in standard pushbuttons and actuators is suitable for a wide temperature range
- Globally Certified, one part number provides Class I, Division 2, ATEX and IECEx Zone 1 certifications
- Also available in EAC, INMETRO, KGS, and others

ConSig "Puts You In Control"

R. STAHL is setting new standards for function, design and technology with 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 certified control and signaling devices can be supplied, providing ultimate flexibility to meet the most demanding application requirements.



ConSig 8040 Series

CONTROL & SIGNALING STATIONS

The ConSig 8040 Series is a new generation of control and signaling stations utilizing explosion protected components with non-metallic enclosures for the ultimate flexibility, safety and durability in Hazardous (Classified) and Hostile (Corrosive) Locations.

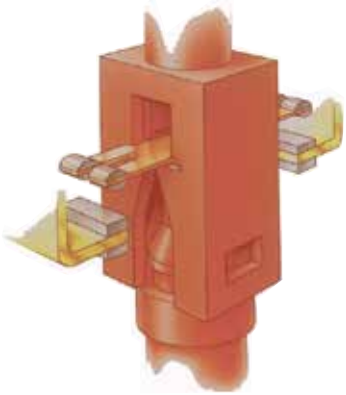
This control and signaling station utilizes snap-on mounted components making field assembly quick and easy. Components include contact blocks with a variety of actuator options, LED pilot lights in all of the standard colors and voltages from 12 V to 254 V AC / DC, 2-pole and 4-pole control switches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

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 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 V AC / DC. 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 Pushbuttons

Illuminated pushbuttons 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-on lenses in red, green, amber, white and blue.

CLASSIFICATIONS

NEC- Class I, Zones 1 & 2
AEx db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III
Enclosure Type 3,4 & 4X; IP66

CEC- Class I, Zones 1 & 2
Ex db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III
ENCLOSURES 3, 4 & 4X; IP66

c UL us LISTED FILE No. E182378

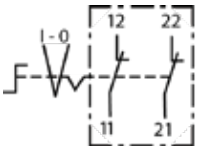
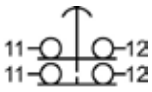
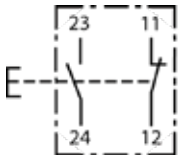
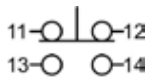
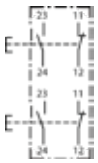
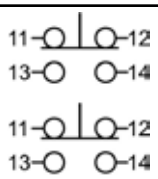
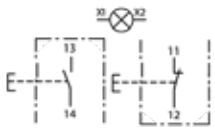
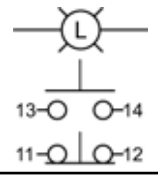
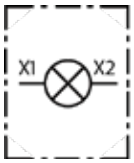
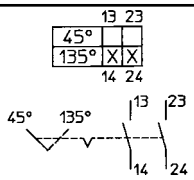
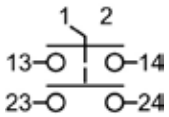
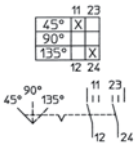
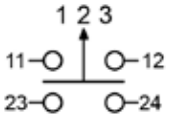
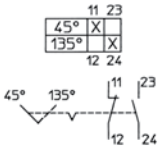
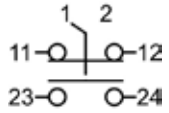
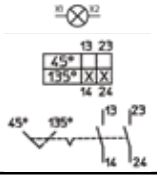
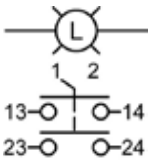
ATEX
Ex II 2 G Ex db eb IIC T6 Gb
II 2 D Ex tb IIIC T80˚C - IP66

IECEx
Ex db eb IIC T6 Gb
Ex tb IIIC T80˚C - IP66

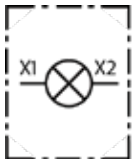
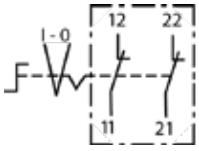
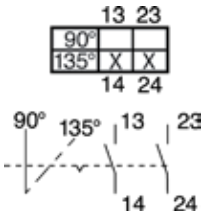
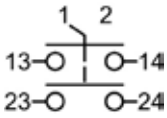
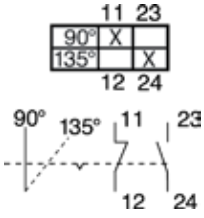
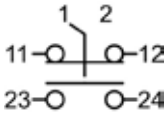
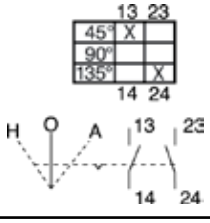
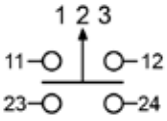
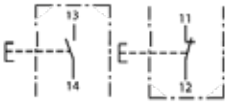
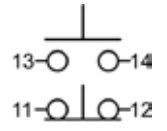
Ambient Temperature Range:
+60°C (+140°F) Max.
–50°C (–58°F) Min.

Special Ambient Temperature Range:*
*Consult Factory

Ordering Information

	Function		Contact Symbols		Catalog Number	Article / SAP Number
			IEC	NEMA		
	"E-STOP" RED JUMBO Mushroom Maintained 2 N.C.				8040/124-C150	**287011**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.				8040/124-U011	**287018**
	"START" Momentary Green Pushbutton 1 N.O. / 1 N.C.	"STOP" Momentary Red Pushbutton 1 N.O. / 1 N.C.			8040/224-U011-U012	**287013**
	"PILOT LIGHT" RED LED 12 V - 254 V AC / DC	"START-STOP" Momentary Double PB 1 N.O. / 1 N.C.			8040/224-PLR0-U2312	**287014**
	"PILOT LIGHT" RED LED 12 V - 254 V AC / DC				8040/124-PLR0	**287009**
	"OFF - ON" Maintained Control Switch 2-Pos. / 2-Pole 10 amps				8040/124-L021	**287028**
	"H - O - A" Maintained Control Switch 3-Pos. / 2-Pole 10 amps				8040/124-L273	**287029**
	"LOCAL REMOTE" Maintained Control Switch 2-Pos. / 10 amps				8040/124-L164	**287030**
	"PILOT LIGHT" RED LED 12 V - 254 V AC / DC	"OFF-ON" Maintained Control Switch 2-Pos. / 2-Pole 10 amps			8040/224-PLR0-N021	**287012**

Ordering Information

	Function	Contact Symbols		Catalog Number	Article / SAP Number
		IEC	NEMA		
	"PILOT LIGHT" GREEN LED 12 V - 254 V AC / DC			8040/114-PLG0	**287010**
	"E-STOP" RED SMALL Mushroom Maintained 2 N.C.			8040/114-C100-LK03	**290554**
	"E-STOP" RED JUMBO Mushroom Maintained 1 N.C.			8040/114-Y150	**287005**
	"OFF - ON" Maintained Selector Switch 2-Pos. / 10 amps			8040/114-02MN1	**287007**
	"LOCAL REMOTE" Maintained Selector Switch 2-Pos. / 10 amps			8040/114-U2MN4	**287023**
	"H-O-A" Maintained Selector Switch 3-Pos. / 10 amps			8040/114-03MMN3	**287024**
	"START" Momentary Double PB 1 N.O. "STOP" Momentary Double PB 1 N.C.			8040/114-U2312	**287008**

ConSig 8040 Series

CUSTOM CONFIGURATION LOGIC

CLASSIFICATIONS

NEC- Class I, Zones 1 & 2
AEx db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III
Enclosure Type 3,4 & 4X; IP66

CEC- Class I, Zones 1 & 2
Ex db eb IIC T6 Gb
Class I, Division 2, Groups A,B,C,D
Class II, Division 2, Groups F,G
Class III
ENCLOSURES 3, 4 & 4X; IP66

c UL us LISTED FILE No. E182378

ATEX
II 2 G Ex db eb IIC T6 Gb
II 2 D Ex tb IIIC T80˚C - IP66

IECEx
Ex db eb IIC T6 Gb
Ex tb IIIC T80˚C - IP66

Ambient Temperature Range:
+60°C (+140°F) Max.
–50°C (–58°F) Min.

Special Ambient Temperature Range:*
*Consult Factory

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 do not meet your specific application needs, use the custom configuration logic tables on the right.

How to use configuration logic tables:

Fill in the blanks from left to right in the striped fields located on the top of pages F19 and F20 using the information stated below in 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.

Start Here

ConSig	Enclosure	
Control Station 8040 /	Enclosure Size (__ __)	Entry or Entries (__)

11 1-device Compact

12 1-device Expanded

22 2-device

64 2-device Expanded

33 3-device Pilot lights and push-buttons only

73 One 4-Pole switch Deep

84 Two 4-Pole switch Deep

Entry Type:

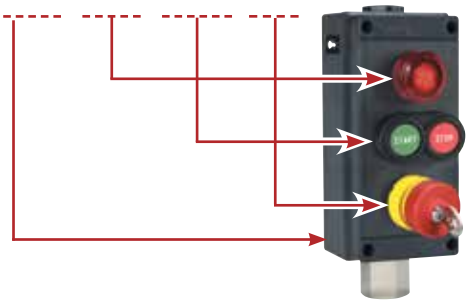
Conduit Hub
0 = 1/2" Hub Top Feed
1 = 1/2" Hub Bottom Feed
2 = 1/2" Hub Feed-Thru
3 = 3/4" Hub Top Feed
4 = 3/4" Hub Bottom Feed
5 = 3/4" Hub Feed-Thru

Compression Gland - FOR IECEx / ATEX only
Non-Metallic Cable Glands
J = M20 Gland Bottom Feed
K = M20 Gland Feed-Through
6 = M25 Gland Top Feed
7 = M25 Gland Bottom Feed
8 = M25 Gland Feed-Thru
9 = Special (specify)*
* For additional options regarding these entries see the Accessories Section in the catalog.

Threaded Opening - In Internal Ground Plate
D = 3/4" NPT plate Top Feed
E = 3/4" NPT plate Bottom Feed
F = 3/4" NPT plate Feed-Through
H = 3/4" NPT plug Feed-Through
L = M20 Plate Bottom Feed
M = M25 Plate Bottom Feed

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 (_____)

Pushbuttons

Contact type
X = 1 N.O.
Y = 1 N.C.
U = 1 N.O. / 1 N.C.
O = 2 N.O.
C = 2 N.C.
M = 2 N.C. / 1 N.O.
W = 1 N.C. / 2 N.O.
T = 3 N.C.
R = 3 N.O.
D* = 2 N.O. / 2 N.C.
*For four contact block arrangements please confirm layout with the factory.

Actuator type
01 = Standard Momentary
03 = Black Momentary Small Mushroom
09 = Keyed E-STOP Red Mushroom Maintained
10 = E-STOP Red Small Mushroom Maintained
12 = Black Small Mushroom Maintained
15 = E-STOP Red Jumbo Mushroom Maintained
23 = Double Pushbutton Momentary
P733 = Device Close-up Plug

Legend
0 = none
1 = START
2 = STOP
3 = ON
4 = OFF
5 = RUN
6 = RESET
7 = OPEN
8 = CLOSE
9 = special (specify)

Pushbutton Lockouts/Guards

LK01 = Momentary Lockout (01)
LK02 = Momentary Exclusion (01)
LK03 = Small Yellow Mushroom Guard (09, 10 & 12)
LK10 = Small Mushroom Lockout (10 & 12)
LK11 = Small Mushroom Pin & Chain Lockout (10 & 12)
LK20 = Small Mushroom Exclusion Lockout (03, 10 & 12)
LK21 = Momentary Pushbutton (01) exclusion

Selector Switches

X = 1 N.O.
Y = 1 N.C.
U = 1 N.O./ 1 N.C.
O = 2 N.O.
C = 2 N.C.

2SK	**2SN**	**2SL**
2MK	**2MN**	**2ML**
3SSK	**3SSN**	**3SSL**
3MMK	**3MMN**	**3MML**
3SMK	**3SMN**	**3SML**
3MSK	**3MSN**	**3MSL**

Note: For Actuator Descriptions (see page F24)

Pilot Lights

PL

Color
A = amber
B = blue
G = green
R = red
W = white

Legend
Same # as pushbutton

Control Switches

Actuator type
N = Non-lockable
S = Small-lockable
L = Large lockable

Switch arrangements 2-pole
02 = 2-pos. Maintained (OFF-ON)
05 = 2-pos. Maintained (ON-OFF)
16 = 2-pos. Maintained (LOCAL-REMOTE)
27 = 3-pos. Maintained (HAND-O-AUTO)
38 = 3-pos. Maint., Spring Return from Right (OFF-RUN-START)

Switch arrangements 4-pole
102 = 2-pos. OFF-ON
106 = 2-pos. LOCAL-REMOTE
119 = 3-pos. HOA
} only for deep enclosures 73 & 84

For more switching arrangements see pgs. F27 and F28.

Legend
0 = none
1 = OFF-ON
2 = ON-OFF
3 = HAND-O-AUTO
4 = LOCAL-REMOTE
5 = STOP-RUN-START
6 = O - I
7 = blank one line text
8 = blank two lines text
9 = special (specify)

Illuminated Pushbuttons

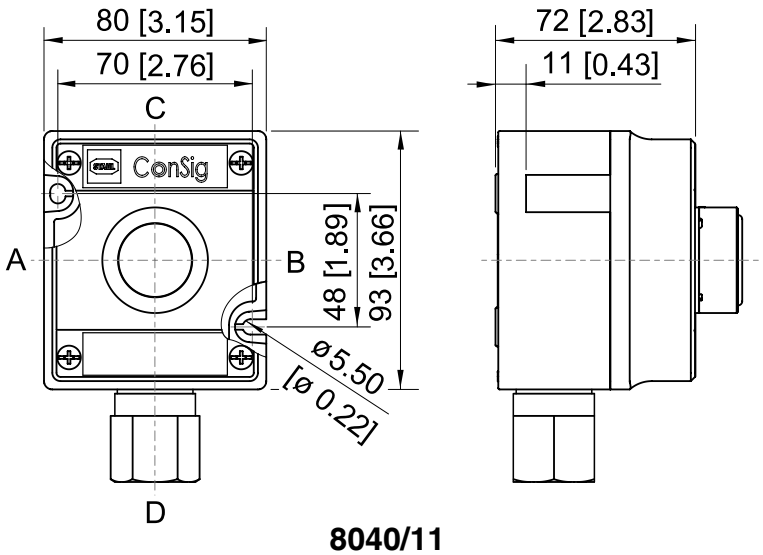
Spring return
SR
SG
SA
SW
SB

Colors
red
green
amber
white
blue

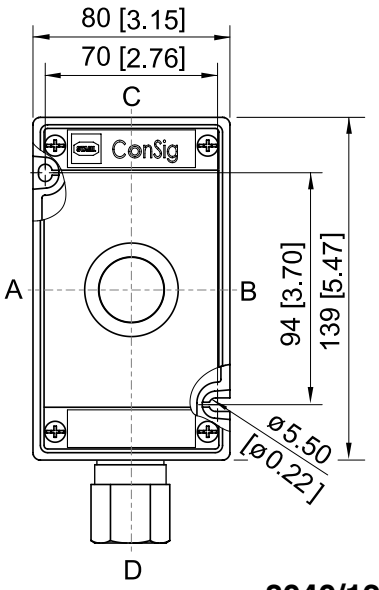
Contact type
X = 1 N.O.
Y = 1 N.C.
U = 1 N.O. / 1 N.C.
O = 2 N.O.
C = 2 N.C.

Legend
Same # as pushbuttons

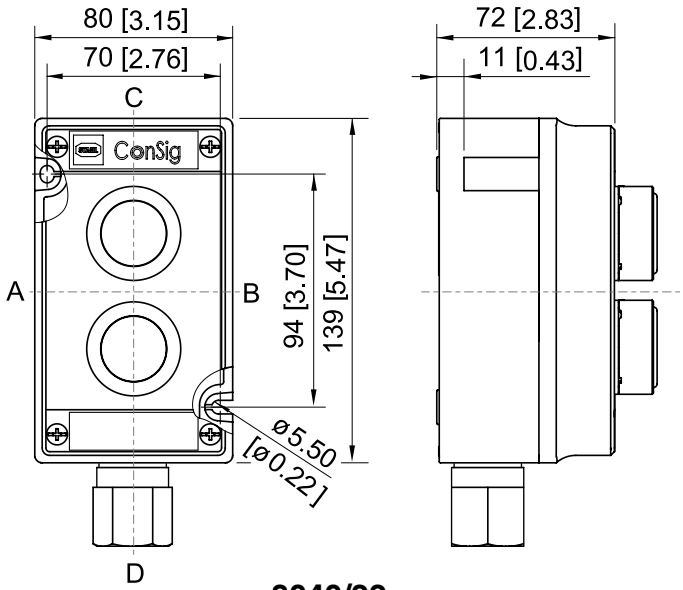
Dimensions in mm [inches]



8040/11

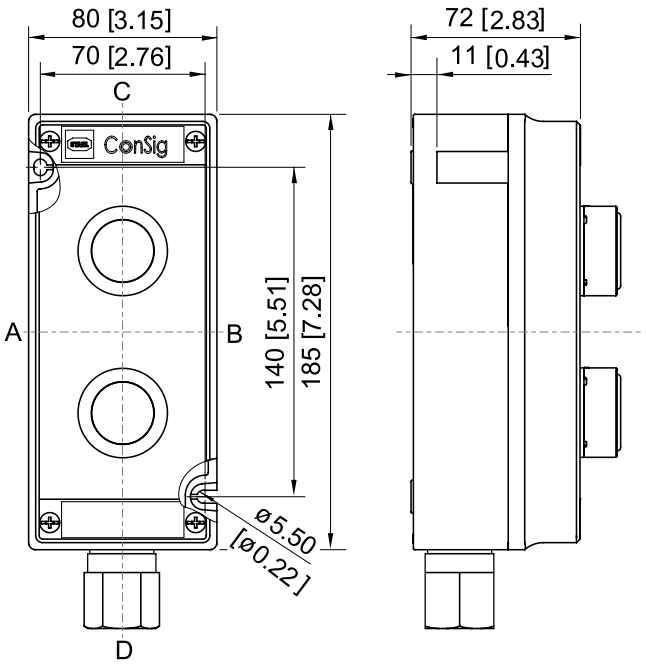


8040/12

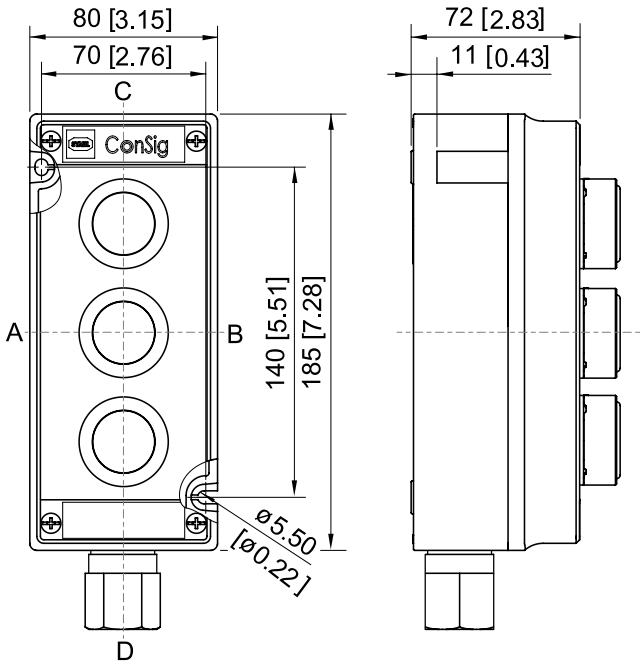


8040/22

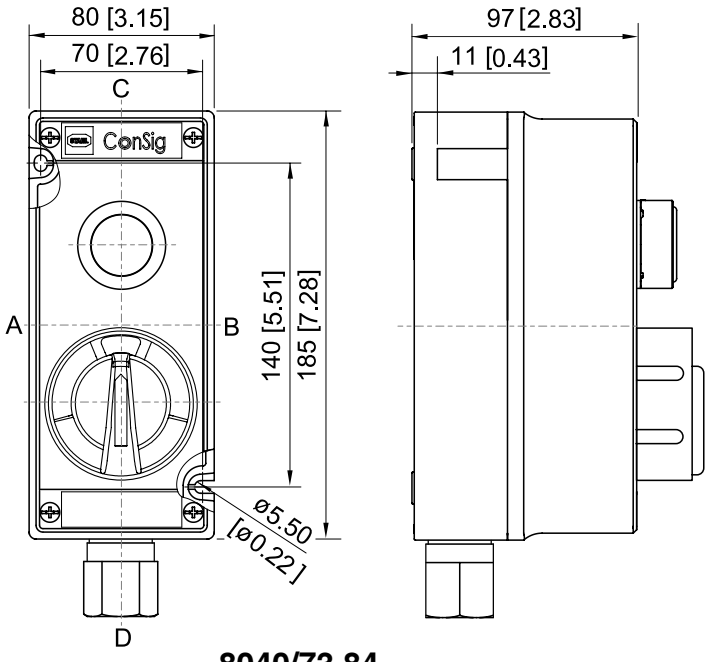
Dimensions in mm [inches]



8040/64



8040/33



8040/73,84

Control Components

PUSH BUTTON ACTUATORS

APPROVALS

c UL us LISTED FILE No. E182378 (NEC & CEC)

PTB 13 ATEX 1019 U

IECEx

IECEx PTB 13.0047U

STAHL offers a large variety of pushbutton actuator versions including momentary and maintained action in standard, mushroom, keyed and selector switch styles. A new double pushbutton actuator combines two control functions in the space of one with the same size button.

Ordering Information

	Actuator Description	Catalog Number (Actuator Kit ONLY)	Article/SAP Number	Actuator Code	Assembly Code: Contact Block(s)	Assembly Code: Legend Disk
	Standard Momentary Pushbutton 1.5" (38 mm) O.D. Legend disk needs to be specified.	8602C3-001-S	**223692**	01 __	 M = 2 x N.C. 1 x N.O. W = 1 x N.C. 2 x N.O. T = 3 x N.C. R = 3 x N.O. X = 1 x N.O. Y = 1 x N.C. U = 1 N.O. + 1 N.C. O = 2 x N.O. C = 2 x N.C. D = 2 x N.C. ① 2 x N.O.	0 = none 1 = START 2 = STOP 3 = ON 4 = OFF 5 = RUN 6 = RESET 7 = OPEN 8 = CLOSE 9 = special (state text w/order)
	Double Momentary Pushbutton 1.5" (38 mm) O.D. Legend disk needs to be specified.	8602C3-023-S	**244639**	23 __		
	Black Mushroom Pushbutton 1.5" (38 mm) O.D. Momentary action. Legend disk needs to be specified.	8602C3-003-S	**244564**	03 __		
	E-Stop Red Mushroom Pushbutton 1.5" (38 mm) O.D. Maintained action. Turn-to-Release. Yellow arrow sticker supplied.	8602C3-010-S	**223698**	10 __		
	Maintained Black Mushroom Pushbutton 1.5" (38 mm) O.D. Maintained action. Turn-to-Release.	8602C3-012-S	**223700**	12 __		
	E-Stop Jumbo Red Mushroom Pushbutton 2.16" (55 mm) O.D. Maintained action. Turn-to-Release. Yellow arrow sticker supplied.	8602C3-015-S	**244637**	15 __		
	E-Stop Keyed Red Mushroom Pushbutton 1.5" (38 mm) O.D. Maintained action. Key-to-Release from maintained position. Yellow arrow sticker supplied.	8602C3-009-S MS1	**223694**	09 __		

① Only possible under double pushbutton 23 in enclosures 12 & 64 and confirm layout with factory.

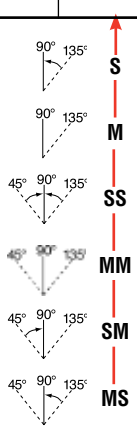
SELECTOR SWITCH ACTUATORS

Ordering Information

Actuator Description	Catalog Number (Actuator Kit ONLY)	Article/SAP Number	Actuator Code	Assembly Code: Contact Block(s)	Assembly Code: Legend Disk
Key Operated Switch 2 Positions	8602C3-008-S-M01-02-MS01	**244574**	__2SK__ * __2MK__		0 = none 1 = OFF-ON
Key Operated Switch 3 Positions	8602C3-008-S-M03-03-MS01	**244633**	__3SSK__ * __3MMK__ __3SMK__ __3MSK__	X = 1 x N.O.	2 = ON-OFF 3 = HAND-OFF-AUTO
Rotary Actuator 2 Positions Non-lockable	8602C3-726-S-M01-02-E08	**244647**	__2SN__ __2MN__	Y = 1 x N.C.	4 = LOCAL-REMOTE
Rotary Actuator 3 Positions Non-lockable	8602C3-726-S-M03-03-E03	**244649**	__3SSN__ __3MMN__ __3SMN__ __3MSN__	U = 1 N.O. + 1 N.C.	5 = STOP-RUN-START 6 = O - I
Rotary Actuator 2 Positions Padlockable in center	8602C3-727-S-M01-02-E08	**244651**	__2SL__ __2ML__	O = 2 x N.O.	7 = blank, one-line text 8 = blank, two-lines text
Rotary Actuator 3 Positions Padlockable in center	8602C3-727-S-M03-03-E03	**244653**	__3SSL__ __3MML__ __3SML__ __3MSL__	C = 2 x N.C.	9 = special (specify)

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

K - Keyed
N - Non-lockable
L - Padlockable



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

APPROVALS

c UL us LISTED FILE No. E182378 (NEC & CEC)

PTB 13 ATEX 1019 U

IECEx
IECEx PTB 13.0047U

Control Components

8082 CONTACT BLOCK

Ordering Information

Description	Contact Symbol		Individual Component Catalog Number	Article / SAP Number
	IEC	NEMA		
Single contact block, 1 N.C.			8082/1-1-00	**132636**
Single contact block, 1 N.O.			8082/1-2-00	**132640**

Technical Data

	NEC/CEC	IEC
Rated Voltage	600 V AC	500 V AC
Continuous Current	10 A	6 A
Terminals	12 AWG	2.5 mm²
Mechanical Life	≥ 10^6 operations	
Electrical Life	≥ 10^6 operations	
Housing Material	polyamide	
Contact Material	silver plated	
Lowest Energy	50 mA @ 12 V AC / DC*	

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

APPROVALS

FILE No. E182378 (NEC & CEC)

PTB 00 ATEX 1031U

IECEx

IECEx PTB 06.0014 U

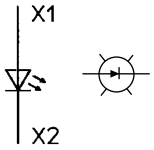
The contact block Series 8082 are available in two versions.
- 1 N.O.
- 1 N.C.

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

The terminals are designed to increased safety requirements

8010 LED Pilot Light

Ordering Information

	Colors	Symbols		Individual Component Catalog Number	Article / SAP Number	Assembly Code
		IEC	NEMA			
Pilot Light	white			8010/2-01	**237971**	Included in ordering code below.
Pilot Light for I.S. Circuits 10.8-28 V AC / DC				8010/3-02	**237972**	
Bezel With Colored Lens	red			8602C3-054-B-C06	**223122**	PLR
	amber					PLA
	green					PLG
	white					PLW
	blue					PLB

See page F24 for legend disk ordering information.

Technical Data

	NEC/CEC/IEC
Rated Voltage	12 V -10% . . . 254 V +6%
Frequency	DC . . . 60 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 mm² (12 AWG)
Housing Material	polyamide

APPROVALS

FILE No. E81680 (NEC & CEC)

PTB 01 ATEX 1160 U

IECEx PTB 06.0016 U

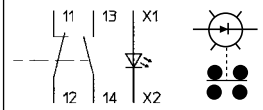
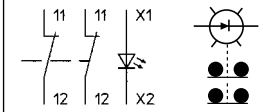
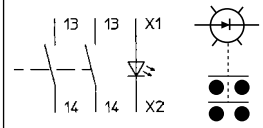
The rail mounted 8010 Series LED Pilot Light accommodates any voltage from 12 to 254 V AC or DC in one compact unit.

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.

8082/8010 ILLUMINATED PUSHBUTTON

Ordering Information

	Contact Symbol		Color	Article / SAP Number		Assembly Code
	IEC	NEMA				
Contact Arrangement						
1N.C. + 1 N.O.			N/A	For individual replacement of contact block & pilot light components, please refer to page F25.		U
2 N.C.			N/A			C
2 N.O.			N/A			O
Actuator						
Spring return	Includes red, green, amber, white and blue colored lens			8602C3-735-S-C06	**244655**	SR SG SA SW SB

Technical Data

8010 Pilot Light	NEC/CEC/IEC	
Rated Voltage	12 V-10% . . . 254 V+6%	
Frequency	DC . . . 60 Hz.	
Rated Current	max. 15 mA	
Rated Power	max. 15 mW	
Electrical Life	100,000 hrs. (11 yrs.)	
Colors	red, green, amber, white, blue	
Terminals	12 AWG (2.5 mm²)	
Housing Material	polyamide	
8082 Contact Block	**NEC/CEC**	**IEC**
Rated Voltage	600 V AC	500 V AC
Continuous Current	10 A	6 A
Lowest Energy	50 mA @ 12 V AC / DC*	

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

APPROVALS

c UL us LISTED FILE No. E182378 (NEC & CEC)

PTB 00 ATEX 1031U
PTB 01 ATEX 1160 U
PTB 13 ATEX 1019 U

IECEx
IECEx PTB 06.0011 U
IECEx PTB 06.0016 U
IECEx PTB 13.0047U

Series 8082/8010 Illuminated Pushbuttons have contact blocks and LED pilot lights combined under one actuator. Choose one of the possible three contact blocks: 2 N.C., 2 N.O., or 1 N.O. / 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 12 V and 254 V AC / DC. They are available in red, green, amber, white and blue.

Control Components

8008 CONTROL SWITCHES

APPROVALS

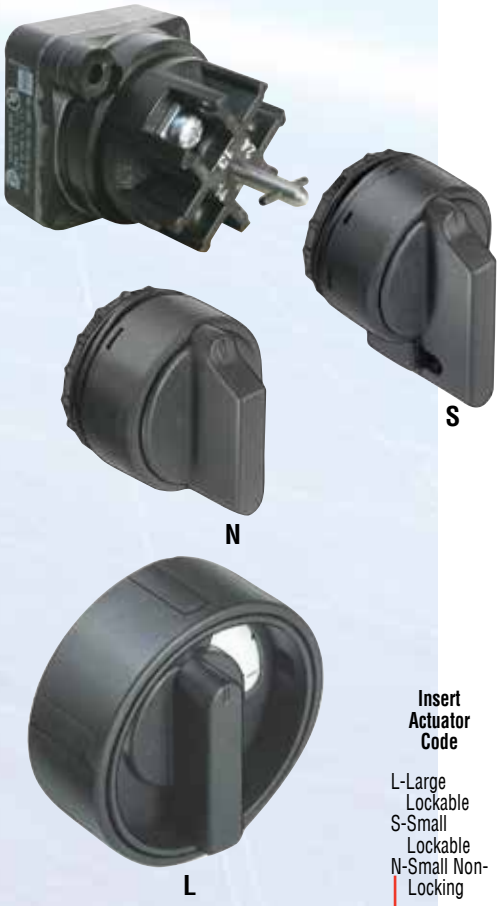
FILE No. E182378 (NEC & CEC)

PTB 00 ATEX 1111U

IECEx

IECEx PTB 06.0010 U

The 8008 Series is a 2-pole or a 4-pole control switch which is rail mounted 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 many different contact configurations. The most common 2-pole switching arrangements are illustrated on this page. The 4-pole switching arrangements are illustrated on page F28. For more configurations, consult factory.



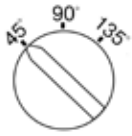
Insert Actuator Code

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

Ordering Information

Selector switch specification example: 8008/2-38

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].

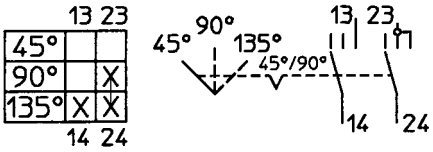
The terminal numbers are marked on the switch block.

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	600 V	690 VAC
Rated Current	10 A	16 A
Mechanical Life	≥ 10^5 Operations	
Electrical Life	≥ 10^5 Operations	
Terminals	12 AWG	2.5 mm²

Make Break Diagram	Contact Arrangement	Assembly Code 038



Note: The above denoted 45°/90° at the notch indicates that in these two positions the switch is maintained, and the 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.

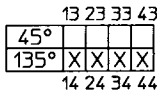
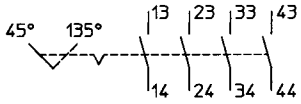
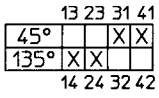
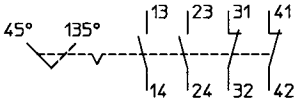
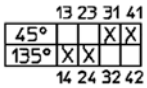
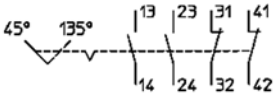
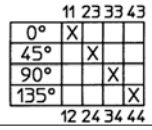
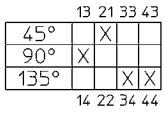
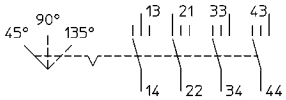
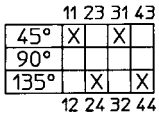
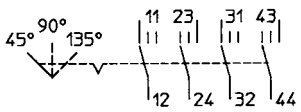
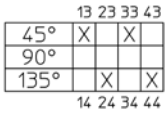
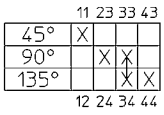
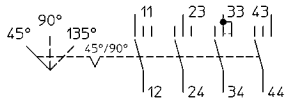
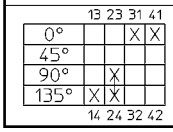
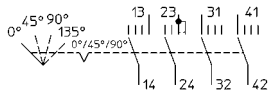
Ordering Information, 2-Pole Switches

Make Break Diagram	Contact Arrangements	Individual Component Catalog Number	Article / SAP Number	Assembly Code
13 23 / 45° / 135° X X / 14 24	45° 135° 13 23 14 24	8008/2-002	**128248**	02
11 21 / 45° X X / 135° / 12 22	45° 135° 11 21 12 22	8008/2-005	**128281**	05
11 23 / 45° X / 135° X / 12 24	45° 135° 11 23 12 24	8008/2-016	**128360**	16
11 23 / 45° X / 90° / 135° X / 12 24	45° 90° 135° 11 23 12 24	8008/2-027	**128418**	27
11 23 / 45° / 90° X / 135° X X / 12 24	45° 90° 135° 90° 11 23 12 24	8008/2-034	**128445**	34
13 23 / 45° / 90° X / 135° X X / 14 24	45° 90° 135° 45°/90° 13 23 14 24	8008/2-038	**128462**	38
13 23 / 45° X / 90° / 135° X / 14 24	45° 90° 135° 90° 13 23 14 24	8008/2-040	**128471**	40
13 23 / 45° X / 90° / 135° X / 14 24	45° 90° 135° 90°/135° 13 23 14 24	8008/2-051	**128516**	51

(See Switch handle ordering table on next page.)

8008 CONTROL SWITCHES, 4-POLE

Ordering Information, 4-Pole Switches

Make Break Diagram	Contact Arrangements	Individual Component Catalog Number	Article / SAP Number	Assembly Code
		8008/2-102	**128250**	102
		8008/2-106	**128289**	106
		8008/2-109	**128316**	109
		8008/2-110	**128323**	110
		8008/2-113	**128346**	113
		8008/2-119	**128379**	119
		8008/2-127	**128420**	127
		8008/2-139	**128468**	139
		8008/2-148	**128505**	148

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

Control Switch Handles

Description	Type	Individual Component Catalog Number	Article / SAP Number	Assembly Code
Small Rotary Actuator	not lockable	8602C3-732-S-90G-E08	**264002**	N
	Lockable, One Position - 90°	8602C3-734-S-90H-E08	**227360**	S
	Lockable, One Position - 45°	8602C3-734-S-45H-E08	**227392**	
Large Rotary Actuator*	Lockable, One Position - 90°	8602C3-731-S-90X-E08	**227224**	L
	Lockable, One Position - 45°	8602C3-731-S-45X-E08	**227226**	

* Can only be installed in enclosure codes 12 and 73

(See page F20 for legend disk ordering information.)

APPROVALS

FILE No. E182378 (NEC & CEC)

PTB 00 ATEX 1111U

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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 and 84.

L

S

N

Notes

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