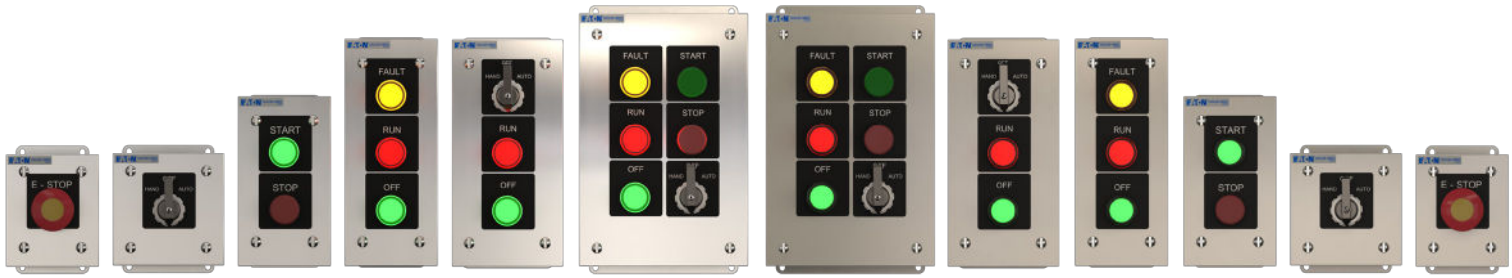
PBX

Classified Pushbutton Stations
C1 D2 TYPE 4 & 4X

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS



Globally Certified For Maximum Application Flexibility

PBX custom assembled push button stations for hazardous locations are available from 1 operator to 6 operator's controls. You need operators that stand up to the harsh environment and perform with extreme reliability and durability.
With over 100 years of success in hazardous equipment manufacturing, Eaton's Crouse-Hinds is now introducing EMPX controls stations that are Class 1 Division 2 rated and readily available. The PBX push button stations are the perfect solution to control equipment surface mounted locally or remotely.

Applications:

- Protects against circulating dust, falling dirt and dripping non-corrosive liquids
- Wash and phosphate undercoat
- ANSI 61 gray polyester powder finish Nema 4
- 316 Stainless Steel Nema 4x
- Stainless steel enclosure cover and sides of body have a smooth brushed finish

Finish:

- Wash and phosphate undercoat
- ANSI 61 gray polyester powder finish
- Stainless steel enclosure cover and sides

Accessories:

See Accessories on Pg 2

Certifications:

NEC and CEC:

Manufactured in the USA

- Class I, Division 1 & 2, Groups B, C, D
- Class II, Division 1 & 2, Groups E, F, G
- Class III
- UL 508A listed, Type 12, Type 13, and Type 4X
- UL file #: E10593
- UL1203 Standard for Explosionproof and Dust-ignitionproof Electrical Equipment for use in Hazardous (Classified) Locations
- UL50 Enclosures for Electrical Equipment
- UL508 Standard for Industrial Control Equipment
- CSA C22.2 No.94 certified, Type 12, Type 13, and Type 4X
- Conforms to NEMA standard for Type 12, Type 13, and Type 4X CSA C22.2 No. 25-1966 Enclosures for use in Class II, Groups E, F, G Hazardous Locations
- CSA C22.2 No. 30-M1986 Explosionproof Enclosures for use in Class I Hazardous Locations
- CSA C22.2 No. 94-M91 Special Purpose Enclosures Industrial Products
- CSA C22.2 No. 14-13 Industrial Control Equipment
- EN 60079-1 / IEC 60079-1
- EN 60079-31 / IEC 60079-31
- Ambient temperature range: -50°C to +60°C

IECEx and ATEX:

- II 2G Ex db IIC Gb
- II 2D Ex tb IIIC Db
- Sira 18ATEX1236U; IECEx CSA 18.0027U
- IP66W (salt spray)
- Ambient temperature range: -50°C to +60°C

Construction:

- Enclosure and cover are fabricated from (14) or (16) gauge steel or Type 304 stainless steel
- Enclosure has extra depth for those components that require more room
- All continuous welded seams are finished smooth
- Cover is attached with captive screws which thread into sealed well nuts (stainless enclosures use stainless sealed well nuts)
- Cover has concealed, detachable hinges which allow for quick removal and can be hinged on either side (PBX Series only)
- Cover has a fixed, oil-resistant gasket
- Weldnut in body of enclosure for grounding
- External mounting feet are provided for secure wall mounting

Operator Types Include:

- Pushbuttons
- Reset buttons
- Pilot lights
- Illuminated pushbuttons
- Mushroom head pushbuttons
- Mushroom head push/pull buttons
- Selector switches

Notes: We can provide special sizes, finishes and other holes andother operator configurations. Consult the factory for your special requirements

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PBX
Classified Pushbutton Stations

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS

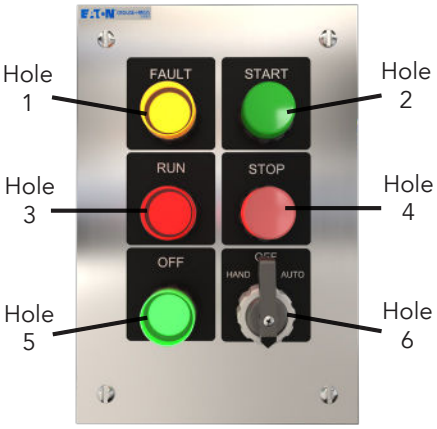
Catalog Number System
PBX 3 519*07 - 519*08 - 79*49 - J1*09 - HXB

Nema 4X Stainless Steel, On Push Button, Off Push Button, 3 Position Switch HOA, Red Run Pilot Light, 1/2" Stainless Hub Bottom Entry

PBX **3** **519*07-519*08-79*49-J1*09** - **HXB**

Station	
PBX	Nema 4x SS
PB4	Nema 4
PBNM	Non Metalix 4X

Holes	
1	2
3	4
5	6



Operator	
Pushbutton, (1) NO & (1) NC contacts	519
Pushbutton, (2) NO & (2) NC contacts	529
Mushroom head pushbutton, (1) NO & (1) NC contacts	819
Mushroom head pushbutton, (2) NO & (2) NC contacts	829
Mushroom head push & pull button, (2) NO & (2) NC contacts	928
RED illuminated pushbutton	IPJ1
GREEN illuminated pushbutton	IPJ3
AMBER illuminated pushbutton	IPJ6
BLUE illuminated pushbutton	IPJ11
RED Pilot light	J1
GREEN Pilot light	J3
AMBER Pilot light	J6
BLUE Pilot light	J11
2 position switch, (1) NO & (1) NC contacts	49
2 position switch (2) NO & (2) NC, contacts	59
3 position switch (1) NO & (1) NC, contacts	69
3 position switch, (2) NO & (2) NC contacts	79

Accessories	
N4 Hole Seal	4HS
N4X Hole Seal	XHS
1/2" Zinc Hub Bottom	HB
1/2" Stainless Hub Bottom	HXB
1/2" Zinc Hub Bottom & Top	HTB
1/2" Stainless Hub Bottom & Top	HXTB
Pre Wired Terminal Strip	TB
Pad Lockable covers	PLC
External Ground Stud	GB

✱ LEGAND PLATES

Single Function		Single Function Cont....		Two Function		Three Function		Background Color black is standard, with the following exceptions:	
Marking	**Cat #**	**Marking**	**Cat #**	**Marking**	**Cat #**	**Marking**	**Cat #**	**Marking**	**Cat. #**
Automatic	16	Reset	12	Blank w/ 2 fields	03	Auto-Off-Hand	49	Start	Green
Blank	01	Reverse	19	For –Rev	30	Blank with 3 fields	04	Stop	Red
Blank w/ 1 field	02	Run	09	Hand-Auto	29	Fast-Off-Slow	41	Emerg.Stop	Red
Close	21	Safe	85	In-Out	35	For-Off-Rev	40	For-Off-Rev	40
Down	23	Slow	47	Off-On	48	Hand-Off-Auto	39	Hand-Off-Auto	39
Emerg. Stop	17	Start	05	Open-Close	32	Run-Off-Jog	38		
Fast	46	Stop	06	Raise Lower	36	Open-Off-Close	43		
Forward	18	Test	13	Run-Jog	28	Raise-Off-Lower	87		
Hand	15	Trip	11	Safe-Run	86	Slow-Off-Fast	88		
In	24	Up	22	Start-Stop	37	Up-Off-Down	44		
Jog	10			Slow-Fast	65	1-Off-2	42		
Lower	27			Up-Down	33				
On	07								
Off	08								
Open	20								
Out	25								
Power On	14								
Raise	26								

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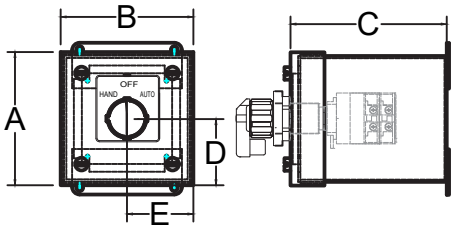
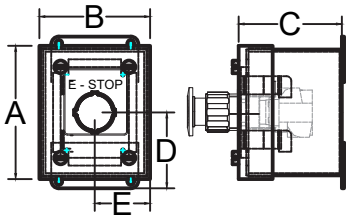
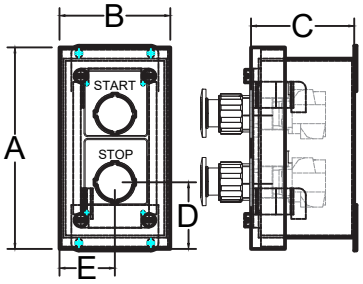
PBX–1–069



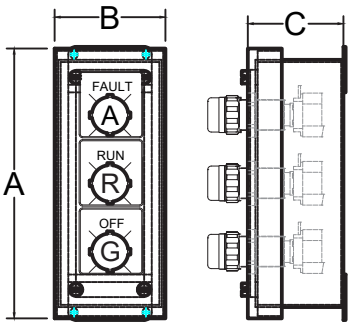
PB4–1–819



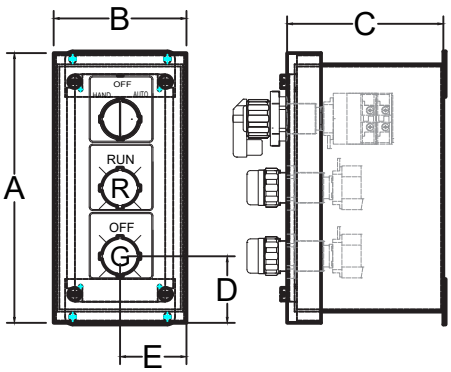
PB4–2–819



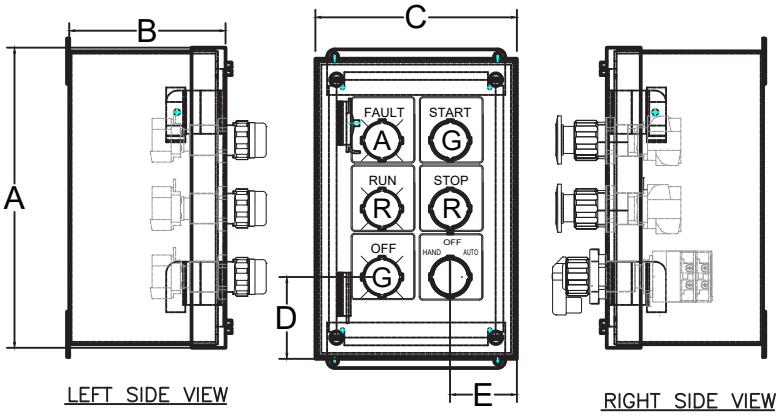
PBX–3–J1,J3,J6



PBX–3–069–J1,J3



PBX–6–069,J1,J3,819



				Enclosure Size (in)				
Holes	**Nema 4X SS**	**Nema 4**	**Non Metallic 4X**	**A**	**B**	**C**	**D**	**E**
1	PBX-1	PB4-1	PBNM-1	4	3.25	3	2.12	1.75
2	PBX-2	PB4-2	PBNM-2	5.75	3.25	3	2.12	1.75
3	PBX-3	PB4-3	PBNM-3	7.25	6.25	3	2.6	2.12
6	PBX-6	PB4-6	PBNM-5	9.5	6.25	3	2.62	2.12
5								

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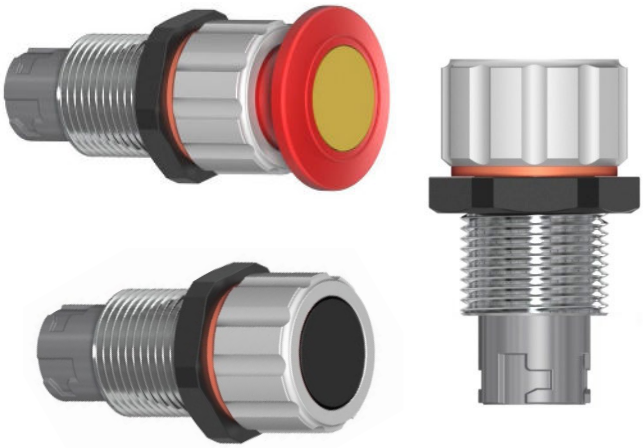


Part number example – pushbutton

EMPXS519

EMPX big pushbutton, (1) NO & (1) NC contacts with black button, 25mm thread length

EBMX S 519

Model

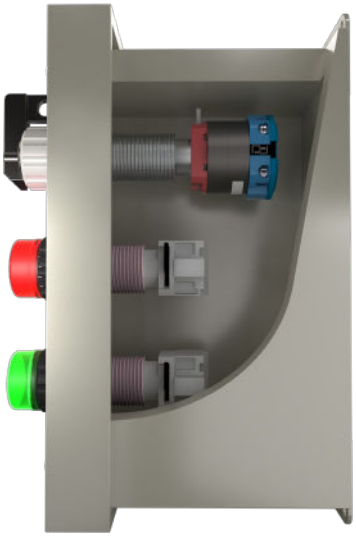
EMPX	Globally certified operator

Thread length

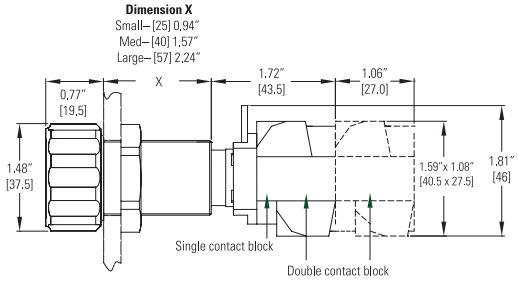
S	Small – 25mm
M	Medium – 40mm
L	Large – 57mm

Pushbuttons

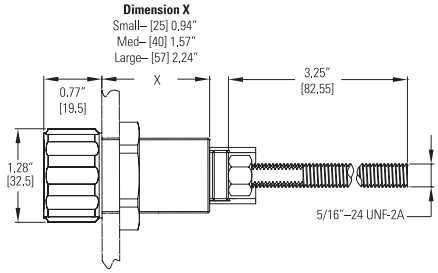
099	Reset pushbutton (with threaded shaft)
519	Big pushbutton, (1) NO & (1) NC contacts
529	Big pushbutton, (2) NO & (2) NC contacts
819	Mushroom head pushbutton, (1) NO & (1) NC contacts
829	Mushroom head pushbutton, (2) NO & (2) NC contacts
918	Mushroom head push & pull button, (1) NO & (1) NC contacts
928	Mushroom head push & pull button, (2) NO & (2) NC contacts



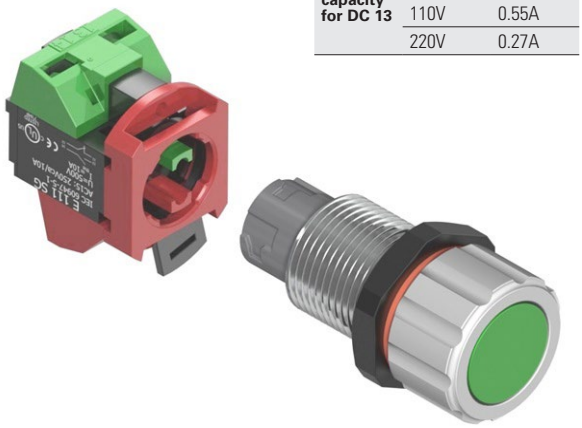
Big pushbutton



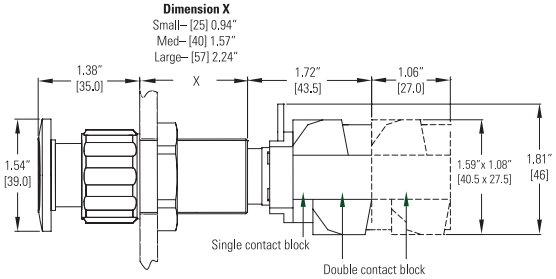
Reset pushbutton



		Voltage	Current
Ratings		U_i 500V	I_{th} 10A
Breaking capacity for AC 15		220V	10A
		380V	7.5A
		500V	5A
Breaking capacity for DC 13		24V	2.75A
		60V	1.10A
		110V	0.55A
		220V	0.27A



Mushroomhead pushbutton



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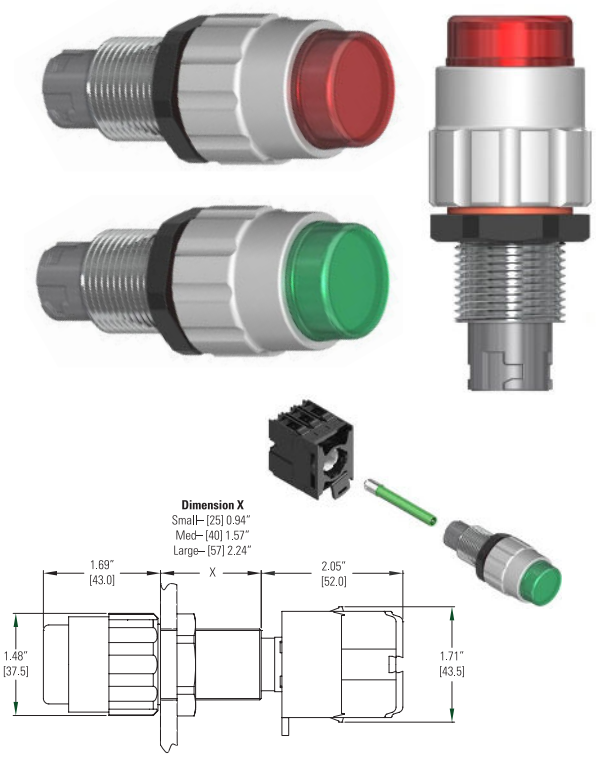
ILLUMINATED PUSHBUTTONS

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS



Part number example – illuminated pushbutton

EMPXS119-J1

EMPX illuminated pushbutton with red lens, (1) NO & (1) NC contacts, 25mm thread length, 240V

EMPX S 519 J1 T2

Model	
EMPX	Globally certified operator

Illuminated pushbuttons	
119	Illuminated pushbuttons, (1) NO & (1) NC contacts

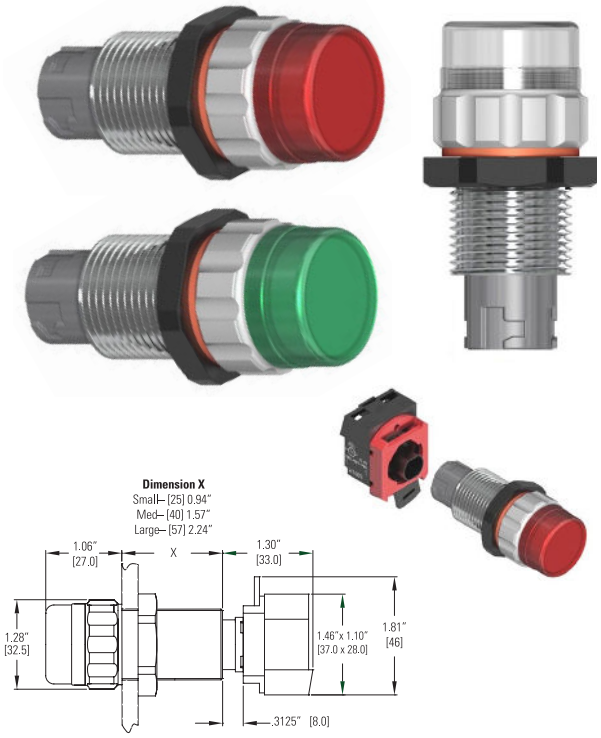
Voltage	
BLANK	120V
S300	24VDC
T2	240V

Thread length	
S	Small – 25mm
M	Medium – 40mm
L	Large – 57mm

Lens colors			
J1	Red	J6	Amber
J3	Green	J11	Blue

	Voltage	Current
Ratings	U_i 500V	I_{th} 6A
Contacts for AC 15	500V	5A
Contacts for DC 13	220V	0.27A

PILOT LIGHTS



Part number example – pilot light

EMPXS009-J1

EMPX pilot light with red lens, 25mm thread length, 240V

EMPX S 519 J1 T2

Model	
EMPX	Globally certified operator

Pilot lights	
009	Pilot lights

Voltage	
BLANK	120V
S300	24VDC
T2	240V
T4	480V

Thread length	
S	Small – 25mm
M	Medium – 40mm
L	Large – 57mm

Lens colors			
J1	Red	J6	Amber
J3	Green	J11	Blue

	Voltage	Current
Ratings	U_i 500V	I_{th} 6A
Contacts for AC 15	500V	5A
Contacts for DC 13	220V	0.27A

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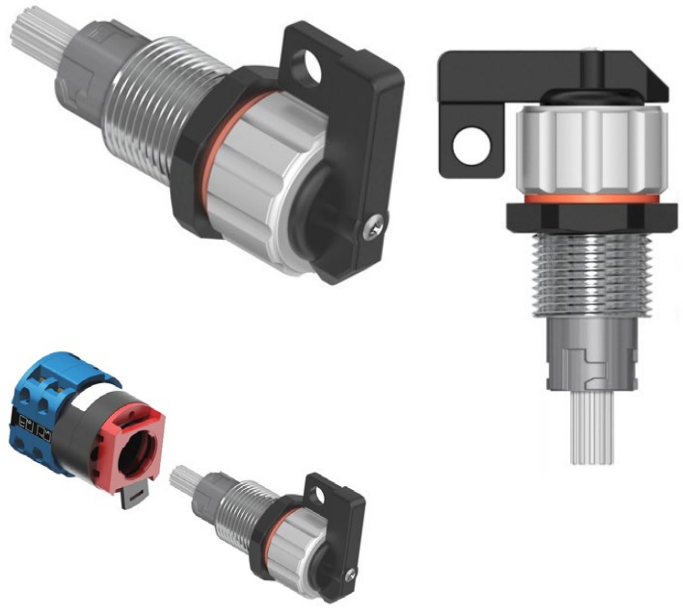
PBX
Classified Pushbutton Stations
SWITCHES

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS



Part number example – 2 & 3 position switches

EMPXS049

2 position switch, (1) NO & (1) NC contacts,25mm thread length

EMPX S 049

Model

EMPX	Globally certified operator

Thread length

S	Small – 25mm
M	Medium – 40mm
L	Large – 57mm

Switches

049	2 position switch, (1) NO & (1) NC contacts
059	2 position switch (2) NO & (2) NC, contacts
069	3 position switch (1) NO & (1) NC, contacts
079	079 = 3 position switch, (2) NO & (2) NC contacts

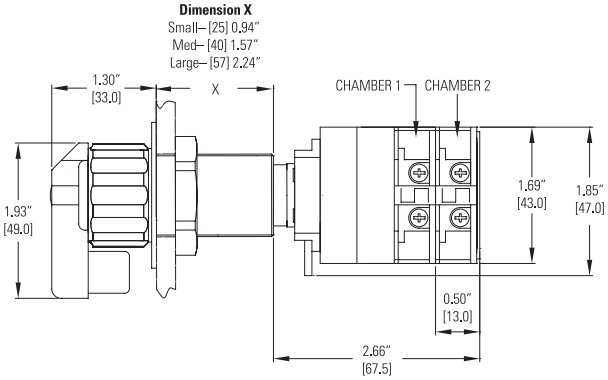
	Voltage	Current	Max. # contact chambers
Ratings	690V	20A	6

Breaking capacity for AC

	Voltage	Current
AC-3	220-240V	3.0 kW
	380-440V	5.5kW
AC-15	220-240V	5A
	380-440V	4A
AC-22A	220-240V	20A
	380-440V	20A
AC-23	220-240V	3.7kW
	380-440V	7.5kW

Breaking capacity for DC

	24V	48V	60V	110V
Resistive loads T<1ms	20A	12A	4.5A	1A
Inductive loads T=50ms	12A	2A	1A	0.4A



Do you have a custom or modified product requirement?

For more information contact:
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PBX

Classified Pushbutton Stations

EMPX OPERATORS

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS

Instructions & Maintenance Information

APPLICATION

EMPX barrel assemblies include pilot lights, pushbutton switches, illuminated pushbutton switches, selector switches and combinations. They are used in control stations, panels and enclosures used in areas made hazardous due to the presence of flammable vapors, gases or combustible dusts.

UL application details:

Identification:	Class I, Division 1, Groups B, C, D Class II, Division 1, Groups E, F, G Class III
Certificate:	E10593
Ambient temperature range:	-50°C to +60°C
Thread:	3/4" x 14 NPSM
Required threads (Class I):	Eight (8) full threads engaged
Required threads (Class II and III): T	Three (3) full threads engaged
Ingress protection:	Type 4X
Storage temperature in original packaging:	-20°C to +50°C

IMPORTANT NOTE

When EMPX devices are to be installed in Crouse-Hinds equipment, refer to Installation Instruction Sheet that came with that equipment for proper installation.

IECEx and ATEX application details:

Identification:	Ex II 2G Ex db IIC Gb Ex II 2D Ex tb IIIC Db	
Certificates:	Sira 18ATEX1236U	IECEx CSA 18.0027U
Ambient temperature range:	-50°C to +60°C	
Thread:	3/4" x 14 NPSM	
Required threads (EN 60079 1):	Five (5) threads engaged (3/4" NPSM)	
Required threads (EN 60079 31):	3.7mm (3/4" NPSM)	
Ingress Protection:	IP66W (salt spray)	
Storage temperature in original packaging:	-20°C to +50°C	

APPLICABLE STANDARDS

- UL1203 Standard for Explosionproof and Dust-ignitionproof Electrical Equipment for use in Hazardous (Classified) Locations
- UL50 Enclosures for Electrical Equipment
- UL508 Standard for Industrial Control Equipment
- CSA C22.2 No. 25-1966 Enclosures for use in Class II, Groups E, F, G Hazardous Locations
- CSA C22.2 No. 30-M1986 Explosionproof Enclosures for use in Class I Hazardous Locations
- CSA C22.2 No. 94-M91 Special Purpose Enclosures Industrial Products
- CSA C22.2 No. 14-13 Industrial Control Equipment
- EN 60079-1 / IEC 60079-1
- EN 60079-31 / IEC 60079-31

TECHNICAL DATA

This product is not intended to be used alone. The electrical apparatus or systems to which it is being incorporated require certification as a whole when intended for use in explosive atmospheres. The 3/4" NPSM thread joint of this product, and the thread of the equipment to which it is being incorporated, must have a female 3/4" NPSM thread attending the requirements for threaded joints.

ELECTRICAL SPECIFICATIONS

PUSHBUTTONS:

Rated voltage	U_i 500V	
Rated current	I_{th} 10A	
Breaking capacity for AC 15	**Voltage** 220V 380V 500V	**Current** 10A 7.5A 5A
Breaking capacity for DC 13	**Voltage** 24V 60V 110V 220V	**Current** 2.75A 1.10A 0.55A 0.27A

ILLUMINATED PUSHBUTTONS:

CONTACT BLOCK INFORMATION

Rated voltage	U_i 500V	
Rated current	I_{th} 6A	
Contacts for AC 15	**Voltage** 250V	**Current** 6A
Contacts for DC 13	**Voltage** 24 VDC	**Current** 3A

PILOT LIGHTS:

LED SOCKET

12V / 24V / 120V
Rated voltage: 250 VAC/VDC
Maximum power: 2.6W

240 VAC
Rated voltage: 240 VAC
Maximum power: 2.6W

480 VAC
Rated voltage: 480 VAC
Maximum power: 2.6W

NOTE: Verify that LED marked rating matches the socket before replacement.

ROTARY SWITCHES:

Breaking capacity for AC		**Rated current 20A**
AC-3	220-240V	3.0 kW
	380-440V	5.5 kW
AC-15	220-240V	5A
	380-440V	4A
AC-22A	220-240V	20A
	380-440V	20A
AC-23A	220-240V	3.7 kW
	380-440V	7.5 kW

Breaking capacity for DC			**Rated current 20A**	
	24V	**48V**	**60V**	**110V**
Resistive loads T<1ms	20A	12A	4.5A	1A
Inductive loads T=50ms	12A	2A	1A	0.4A

Rated voltage	690V
Rated current	20A
Max. no. contact chambers	6

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PBX

Classified Pushbutton Stations
MOUNTING INSTRUCTIONS

EATON CROUSE-HINDS SERIES BY SPIKE ELECTRIC CONTROLS

> ⚠ **WARNING**
>
> To avoid fire or explosion, operators must be used within their ratings, and installed by a qualified technician.

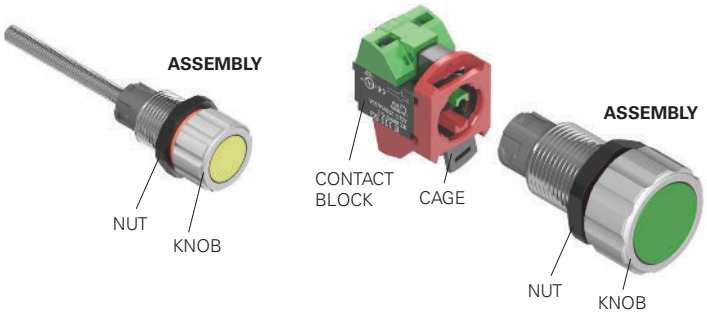
This product may not be used alone and should be installed in equipment with the appropriate type of protection, and using the procedures described below to ensure its degree of ingress protection.

> ⚠ **CAUTION**
>
> To maintain environmental ratings, operators shall be installed in the horizontal position; vertical position (facing up) is not permitted. Additionally, extra precaution shall be taken if operators are stored outdoors in the vertical position.

To install the product correctly, follow the steps below:

PUSHBUTTONS (for reset pushbuttons, omit Steps 1 and 6):

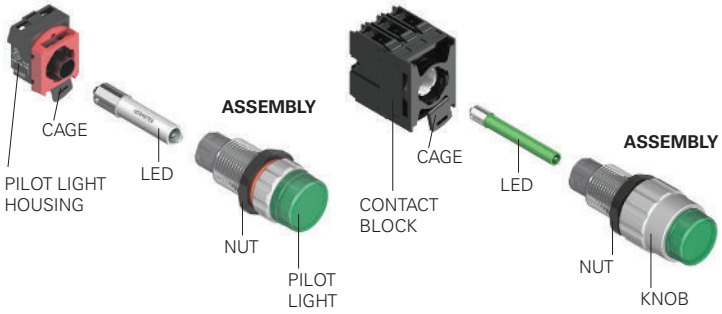
1. Disconnect the contact block from the assembly by sliding the cage locking tab clockwise.
2. Remove the nut and protective sleeve from the threaded body.
3. Place the legend plate under the knob, or attach to the enclosure.
4. Make sure the operator threads and surface being attached to are clean and free of debris. Apply STL thread lubricant and screw the pushbutton assembly into the enclosures 3/4" NPSM threaded entry and torque 27 in.-lbs. to 53 in.-lbs. (3 N-m to 6 N-m). Ensure legend plate is held in place to prevent rotation.
5. Install the nut onto the assembly threaded body and torque to 18 in.-lbs. (2 N-m) with an appropriate tool.
6. Installing the contact block to the assembly:
   a. With the cage locking tab held in the clockwise position, align the assembly channel with the locking cage ID tabs on the contact block and slide the block onto the assembly.
   b. Finally move the cage tab counterclockwise to lock switch in place.
   c. Verify orientation of block is such that control wires won't be directed into flame path of cover/body.



After performing the connections described above, the product can be safely used, and the ingress of protection is assured.

PILOT LIGHTS AND ILLUMINATED PUSHBUTTONS:

1. Disconnect the contact/terminal block from the assembly by sliding the cage locking tab clockwise.
2. Install LED into terminal block.
3. Remove the nut and protective sleeve from the threaded body.
4. Place the legend plate under the knob, or attach to the enclosure.
5. Make sure the operator threads and surface being attached to are clean and free of debris. Apply STL thread lubricant and screw the pushbutton assembly into the enclosures 3/4" NPSM threaded entry and torque to 27 in.-lbs. to 53 in.-lbs. (3 N-m to 6 N-m).
6. Install the nut onto the assembly threaded body and torque to 18 in.-lbs. (2 N-m) with an appropriate tool.
7. Installing the contact block to the assembly:
   a. With the cage locking tab oriented in the bottom, ensure it is slid to the left position.
   b. Align the assembly channel with the locking cage ID tabs on the contact block and slide the block onto the assembly.
   c. Finally move the cage tab counterclockwise to lock switch in place.
   d. Verify orientation of block is such that control wires won't be directed into flame path of cover/body.



After performing the connections described above, the product can be safely used, and the ingress protection is assured.

ROTARY SWITCHES:

1. Disconnect the rotary switch from the switch assembly by sliding the cage locking tab clockwise.
2. Remove the nut and protective sleeve from the threaded body.
3. Place the legend plate under the rotary knob, or attach to the enclosure.
4. Make sure the operator threads and surface being attached to are clean and free of debris. Apply STL thread lubricant and screw the rotary knob into the enclosures 3/4" NPSM threaded entry and torque to 27 in.-lbs. to 53 in.-lbs. (3 N-m to 6 N-m).
5. Align the rotary knob pointer to the legend plate.
6. Install the nut onto the switch assembly threaded body, but do not tighten yet.
7. Installing the rotary switch to the switch assembly:
   a. With the cage locking tab held in the clockwise position, align the assembly channel with the locking cage ID tabs on the rotary switch and slide onto the assembly.
   b. Apply pressure to the rotary switch while rotating the knob handle until the splined shaft aligns and drops into place.
   c. Move the cage tab counterclockwise to lock switch in place.
   d. If the knob pointer is misaligned from the legend plate markings, the switch assembly may need to be rotated by threading the assembly in or out while maintaining the 27 in.-lbs. to 53 in.-lbs. (3 N-m to 6 N-m) torque requirement.
   e. Torque nut to 18 in.-lbs. (2 N-m) with an appropriate tool.

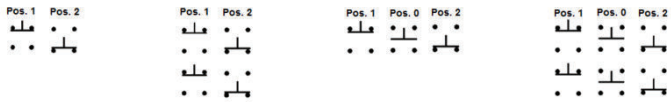
NOTE: During the cables/wires installation, make sure that no mechanical tension is applied to the rotary switch to avoid any damage.

After performing the connections described above, the product can be safely used, and ingress protection is assured.

> ⚠ **CAUTION**
>
> To avoid ingress, use of non-Crouse-Hinds legend plates must be verified by user.

TYPICAL CONTACT POSITIONS

Pushbutton and two-position switches	Pushbutton and two-position switches	Three-position switches	Three-position switches
1 NO & 1 NC	2 NO & 2 NC	1 NO & 1 NC	2 NO & 2 NC



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PBX

Classified Pushbutton Stations

WIRE SIZE CHART

The chart below shows the wire size for each type of EMPX devices.

	UL		IECEx and ATEX		
Device type	**Hard wire (up to 2 wires)**	**Flexible cable (up to 2 wires)**	**Hard wire (up to 2 wires)**	**Flexible cable (up to 2 wires)**	**Torque**
Pushbuttons and lights	18 - 13 AWG	20 - 15 AWG	2.5mm^2	1.5mm^2	9 in.-lbs. (1 N-m)
Selector switches	12 AWG	14 AWG	2.5mm^2	2.5mm^2	9 in.-lbs. (1 N-m)

IECEx AND ATEX SPECIAL CONDITIONS FOR SAFE USE

- For flameproof applications, the actuators and signaling elements shall only be installed in Ex db enclosures with maximum internal volume of 35 liters and approved for Group IIC or Ex db enclosures with maximum internal volume of 160 liters and approved for Group IIB + H_2, according to EN60079-1/IEC 60079-1.
- For flameproof applications, the actuators and signaling elements shall only be installed in Ex db enclosures with maximum internal explosion pressure of 20 bar for Group IIC according to EN60079-1/IEC 60079-1.
- The actuators and signaling elements shall only be used for a service temperature range of -50°C to +60°C.
- For flameproof applications, the actuators and signaling elements shall only be threaded in enclosure walls having a minimum length of at least five (5) threads engaged for 3/4" NPSM, according to Table 4 from EN 60079-1/IEC 60079-1. The maximum thickness of the enclosure wall is limited by size (length) of the actuating and signal elements.
- For dustproof applications, the actuators and signaling elements shall only be threaded in enclosure wall having a minimum length of 3.7mm for 3/4" NPSM, and at least two (2) threads engaged according to EN 60079-31. The maximum thickness of the enclosure wall is limited by size (length) of the actuating and signal elements. The elements have to be fixed in the electrical equipment in such a way that rotation and accidental loosening will be prevented.
- For the pilot light and illuminated buttons, the maximum load for LED is 2W.
- The outer molding of the elements has to be tightened according manufacturer's instructions.
- When a locknut is used, care must be taken to ensure that an engagement of two (2) threads is still available for fixing the locknut.
- The manufacturer's instructions for operation must be followed.

STORAGE

Upon receiving the product, the parts must stored in a covered, clean and dry place so that there is no contact between threads of the products.

INSPECTION AND MAINTENANCE

Inspection and maintenance must be performed in accordance with the applicable codes of practice by an appropriately trained person.

REPAIR

A properly trained person shall perform the repair of equipment in accordance with the manufacturer's instructions and applicable codes of practice. Repair/modification must be performed only with manufacturer original parts and should be limited to the replacement of the following parts:

- Gasket
- Contact blocks
- Adapter for circuit breaker
- Power supply module for pilot light
- Color calotte for signaling

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Legend Plates:

If desired markings on indicating plates may be added to catalog number after the coil voltage designation. Put a – after the coil voltage & any legend plates that are selected. Select from the list of standard markings below.

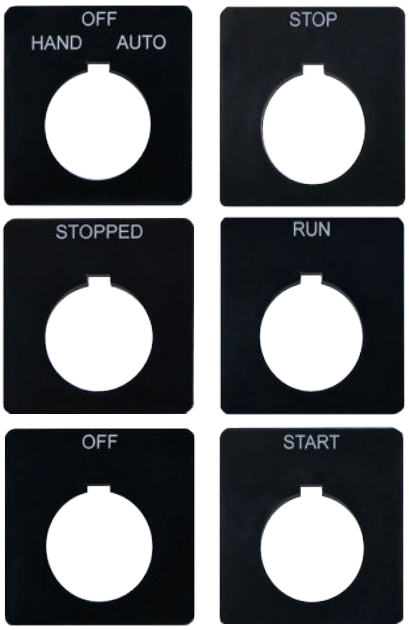
Single Function Legend Plates	
Automatic	DSL16
Blank	DSL01
Blank with single field	DSL02
Close	DSL21
Down	DSL23
Emerg. Stop	DSL17
Fast	DSL46
Forward	DSL18
Hand	DSL15
In	DSL24
Jog	DSL10
Lower	DSL27
On	DSL07
Off	DSL08
Open	DSL20
Out	DSL25
Power On	DSL14
Raise	DSL26
Reset	DSL12
Reverse	DSL19
Run	DSL09
Safe	DSL85
Slow	DSL47
Start	DSL05
Stop	DSL06
Test	DSL13
Trip	DSL11
Up	DSL22

TWO Function Legend Plates	
Marking	Cat. #
Blank with 2 fields	DSL03
For –Rev	DSL30
Hand-Auto	DSL29
In-Out	DSL35
Off-On	DSL48
Open-Close	DSL32
Raise Lower	DSL36
Run-Jog	DSL28
Safe-Run	DSL86
Start-Stop	DSL37
Slow-Fast	DSL65
Up-Down	DSL33

Background color for all legend plates is black with the following exceptions:

Start	Green
Stop	Red
Emerg.Stop	Red
For-Off-Rev	DSL40

Three Function Legend Plates	
Auto-Off-Hand	DSL49
Blank with 3 fields	DSL04
Fast-Off-Slow	DSL41
For-Off-Rev	DSL40
Hand-Off-Auto	DSL39
Run-Off-Jog	DSL38
Open-Off-Close	DSL43
Raise-Off-Lower	DSL87
Slow-Off-Fast	DSL88
Up-Off-Down	DSL44
1-Off-2	DSL42



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