



FACTORY SEALED CONTROLS - INTRODUCTION



Class I, Div. 1 & 2, Groups B*, C, D
Class I, Zone 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III
NEMA 3, 7 (C,D) 9 (E,F,G)



Certified File 2493125

Contact Factory for other certification details

FEATURES-SPECIFICATIONS

SEAL-XM™

Applications

Seal-XM™ Factory Sealed push button stations, selector switches, pilot lights and tumbler switches are used to prevent the igniting of external hazardous atmospheres by the enclosed arcing devices in such areas as:

- Hazardous locations due to the presence of flammable gases or vapors, combustible dusts or easily ignitable fibers or flyings
- Installations at petroleum refineries, chemical and petrochemical plants and other processing or storage facilities where similar hazards exist
- Use in conjunction with magnetic starters or contactors for remote control of motors

Features

- Incorporates Factory Sealed Universal contact blocks and GOB3 LED pilot light devices
- External sealing fittings typically not required, reducing installation time and cost
- No seal plate between the electrical device and back box allows direct wiring to contact terminals
- Nema 3 weatherproof
- Grounding boss supplied in the splice box
- Sold as complete units 1/2", 3/4" Dead End and thru feed. 1" hubs available on request
- Standard finish is a grey epoxy powder baked on for ultimate corrosion resistance
- More wiring room in back box



Material & Groups

FXCS-*-M Groups C, D Copper free aluminum cover & box
FXCS-*-MB Groups B, C, D Copper free aluminum cover & box
FXCS-*-MBI Groups B, C, D Copper free aluminum cover & ductile iron back box zinc electroplated
FXCS-*-MI Groups C, D Copper free aluminum cover & ductile iron back box zinc electroplated

Stainless steel captive cover screws

Operating shafts stainless steel

* Group "B" (-MB & -MBI) versions need not be sealed within first 60" of conduit. Sealing fitting required beyond 60"

	D2CU Factory Sealed Contact Block
CONTACT BLOCK CAT. NO. D2CU	
USED ON:	DIAGRAM
FXCS-*-M FXCS-*-MB FXCS-*-MBI FXCS-*-MI	

Hazardous Rating:

Class I, Division 2, Groups A,B,C,D Class I, Zone 2, Groups IIB+H2, IIA, T6

Terminal Capacity:

22 thru 12 AWG [0.52-2.5mm²] copper, solid or stranded conductors. Tightening torque: 7 in-lbs. (tolerance +3.0/0.0) [-0.8Nm]

Contact Electrical Ratings:

NEMA A600- 7200 VA (Make), 720 VA (Break), 10 Amps Cont. @600V AC (Thermal)
 NEMA Q300-69 VA (Make & Break), 2.5 Amps Cont. @250V DC (Thermal)





FACTORY SEALED CONTROLS - ORDERING INFORMATION 1



Single Push Button



Double Push Button



LED Pilot Light

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FEATURES-SPECIFICATIONS

SEAL-XM MOMENTARY CONTACT SINGLE PUSH BUTTON					
CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LEGEND PLATE MARKING ^②
BOX COVER ^①					
DEAD-END	FEED-THRU				
FXCS-1B1-M	FXCS-4B1-M	1/2"		GREEN	START
FXCS-2B1-M	FXCS-5B1-M	3/4"			
FXCS-1B2-M ^④	FXCS-4B2-M ^④	1/2"		RED	STOP
FXCS-2B2-M ^④	FXCS-5B2-M ^④	3/4"			
FXCS-1B3-M	FXCS-4B3-M	1/2"		BLACK	SPECIFY
FXCS-2B3-M	FXCS-5B3-M	3/4"			

SEAL-XM MOMENTARY CONTACT DOUBLE PUSH BUTTON					
CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LEGEND PLATE MARKING ^②
BOX & COVER ^①					
DEAD-END	FEED-THRU				
FXCS-1B4-M	FXCS-4B4-M	1/2"		GREEN/RED	START/STOP
FXCS-2B4-M	FXCS-5B4-M	3/4"			
FXCS-1B5-M	FXCS-4B5-M	1/2"		GREEN/GREEN	SPECIFY
FXCS-2B5-M	FXCS-5B5-M	3/4"			
FXCS-1B7-M	FXCS-4B7-M	1/2"		BLACK/BLACK	SPECIFY
FXCS-2B7-M	FXCS-5B7-M	3/4"			

SEAL-XM LED PILOT LIGHT						
CATALOG NUMBER		HUB SIZE	DIAGRAM	VOLT ^③	LENS COLOR	LEGEND PLATE MARKING ^②
BOX & COVER ^①						
DEAD-END	FEED-THRU					
FXCS-1B24CL-M	FXCS-4B24CL-M	1/2"		120V	CLEAR	SPECIFY
FXCS-2B24CL-M	FXCS-5B24CL-M	3/4"				
FXCS-1B24GL-M	FXCS-4B24GL-M	1/2"		120V	GREEN	SPECIFY
FXCS-2B24GL-M	FXCS-5B24GL-M	3/4"				
FXCS-1B24RL-M	FXCS-4B24RL-M	1/2"		120V	RED	SPECIFY
FXCS-2B24RL-M	FXCS-5B24RL-M	3/4"				

① Replace -M with -MB for Group "B" Rating, -MI for Iron Back Box, -MBI for Group "B" and Iron Back Box.
 ② For other than standard legend plate markings refer to 'Custom Legend Plates' on page C59.
 ③ For other than standard 120V lamp, consult factory, or see page C59 to order lamp voltage desired to be changed in field.
 ④ For lockout on Stop Button, add "-LO" to end of catalog number. i.e. FXCS-1B2-M-LO
 * Group "B" (-MB & -MBI) versions need not be sealed within first 60" of conduit. Sealing fittings required beyond 60".



FACTORY SEALED CONTROLS - ORDERING INFORMATION 2



Double LED
Pilot Light



Push Button
LED Pilot Light



Push/Pull
Mushroom

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FEATURES-SPECIFICATIONS

SEAL-XM DOUBLE LED PILOT LIGHT						
CATALOG NUMBER		HUB SIZE	DIAGRAM	LAMP VOLTS④	LENS COLOR③	LEGEND PLATE MARKING②
BOX & COVER①						
DEAD-END	FEED-THRU					
FXCS-1B30CL-M	FXCS-4B30CL-M	1/2"		120V	CLEAR	SPECIFY
FXCS-2B30CL-M	FXCS-5B30CL-M	3/4"				
FXCS-1B30GL-M	FXCS-4B30GL-M	1/2"		120V	GREEN	SPECIFY
FXCS-2B30GL-M	FXCS-5B30GL-M	3/4"				
FXCS-1B30RL-M	FXCS-4B30RL-M	1/2"		120V	RED	SPECIFY
FXCS-2B30RL-M	FXCS-5B30RL-M	3/4"				
FXCS-1B30RL-GL-M	FXCS-4B30RL-GL-M	1/2"		120V	RED/GREEN	SPECIFY
FXCS-2B30RL-GL-M	FXCS-5B30RL-GL-M	3/4"				

SEAL-XM MOMENTARY CONTACT PUSH BUTTON AND LED PILOT LIGHT								
CATALOG NUMBER		HUB SIZE	DIAGRAM	LAMP VOLTS④	BUTTON COLOR	LENS COLOR③	LEGEND PLATE MARKING②	
BOX & COVER①							BUTTON	LENS
DEAD-END	FEED-THRU							
FXCS-1B13-C-M	FXCS-4B13-C-M	1/2"		120V	RED	CLEAR	STOP	SPECIFY
FXCS-2B13-C-M	FXCS-5B13-C-M	3/4"						
FXCS-1B13-O-M	FXCS-4B13-O-M	1/2"		120V	GREEN	GREEN	START	SPECIFY
FXCS-2B13-O-M	FXCS-5B13-O-M	3/4"						
FXCS-1B13-U-M	FXCS-4B13-U-M	1/2"		120V	BLACK	RED	SPECIFY	SPECIFY
FXCS-2B13-U-M	FXCS-5B13-U-M	3/4"						

SEAL-XM MAINTAINED CONTACT PUSH/PULL MUSHROOM						
CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LEGEND PLATE MARKING②	
BOX & COVER①						
DEAD-END	FEED-THRU					
FXCS-1MMG3-M	FXCS-4MMG3-M	1/2"		GREEN	START	
FXCS-2MMG3-M	FXCS-5MMG3-M	3/4"				
FXCS-1MMR3-M⑤	FXCS-4MMR3-M⑤	1/2"		RED	STOP	
FXCS-2MMR3-M⑤	FXCS-5MMR3-M⑤	3/4"				
FXCS-1MMK3-M	FXCS-4MMK3-M	1/2"		BLACK	SPECIFY	
FXCS-2MMK3-M	FXCS-5MMK3-M	3/4"				

① Replace -M with -MB for Group "B" Rating, -MI for Iron Back Box, -MBI for Group "B" and Iron Back Box.

② For other than standard legend plate markings refer to 'Custom Legend Plates' on page C59.

③ Lens colors other than listed may be supplied - consult factory for special order.

④ For other than standard 120V lamp, consult factory, or see page C59 to order lamp voltage desired to be changed in field.

⑤ For lockout on Stop Button, add "-LO" to end of catalog number. i.e. FXCS-1MMR3-M-LO

Note: Four nameplates supplied; EMERG STOP, START, STOP, BLANK.

Operation - when push button is depressed contacts will change state. Operator remains in depressed position until pulled out to normal position.

* Group "B" (-MB & -MBI) versions need not be sealed within first 60" of conduit. Sealing fittings required beyond 60".



FACTORY SEALED CONTROLS - ORDERING INFORMATION 3



Two Position Selector Switch



Three Position Selector Switch

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 Class III
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FEATURES-SPECIFICATIONS

SEAL-XM TWO POSITION SELECTOR SWITCH - MAINTAINED CONTACT				
CATALOG NUMBER		HUB SIZE	LEFT POSITION	RIGHT POSITION
BOX & COVER [Ⓞ]				
DEAD-END	FEED-THRU			
FXCS-1S2A1-M	FXCS-4S2A1-M	1/2"		
FXCS-2S2A1-M	FXCS-5S2A1-M	3/4"		
FXCS-1S2A5-M	FXCS-4S2A5-M	1/2"		
FXCS-2S2A5-M	FXCS-5S2A5-M	3/4"		

SEAL-XM THREE POSITION SELECTOR SWITCH - MAINTAINED CONTACT					
CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
BOX & COVER [Ⓞ]					
DEAD-END	FEED-THRU				
FXCS-1S3C4-M	FXCS-4S3C4-M	1/2"			
FXCS-2S3C4-M	FXCS-5S3C4-M	3/4"			
FXCS-1S3C5-M	FXCS-4S3C5-M	1/2"			
FXCS-2S3C5-M	FXCS-5S3C5-M	3/4"			

SEAL-XM TWO POSITION SELECTOR SWITCH - SPRING RETURN				
CATALOG NUMBER		HUB SIZE	LEFT POSITION	RIGHT POSITION
BOX & COVER [Ⓞ]				
DEAD-END	FEED-THRU			
FXCS-1S2L3F-M	FXCS-4S2L3F-M	1/2"		
FXCS-2S2L3F-M	FXCS-5S2L3F-M	3/4"		

SELECTOR SWITCH OPERATION - SPRING RETURN TO LEFT FROM RIGHT - MAINTAINED IN LEFT.

SEAL-XM THREE POSITION SELECTOR SWITCH - SPRING RETURN					
CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
BOX & COVER [Ⓞ]					
DEAD-END	FEED-THRU				
FXCS-1S3M6G-M	FXCS-4S3M6G-M	1/2"			
FXCS-2S3M6G-M	FXCS-5S3M6G-M	3/4"			

SPRING RETURN TO CENTER FROM LEFT AND RIGHT - MAINTAINED CENTER

FXCS-1S3L6G-M	FXCS-4S3L6G-M	1/2"			
FXCS-2S3L6G-M	FXCS-5S3L6G-M	3/4"			

SPRING RETURN TO CENTER FROM RIGHT - MAINTAINED CENTER AND LEFT

FXCS-1S3R6G-M	FXCS-4S3R6G-M	1/2"			
FXCS-2S3R6G-M	FXCS-5S3R6G-M	3/4"			

SPRING RETURN TO CENTER FROM LEFT - MAINTAINED CENTER AND RIGHT

Ⓞ Replace -M with -MB for Group "B" Rating, -MI for Iron Back Box, -MBI for Group "B" and Iron Back Box.
 * Group "B" (-MB & -MBI) versions need not be sealed within first 60" of conduit. Sealing fittings required beyond 60".
 For other than standard marking, see page C59 and order separately or as modified products.
 STANDARD NAMEPLATE MARKINGS – 2 Positions – BLANK & OFF-ON – 3 Positon – BLANK or HAND-OFF-AUTO



FACTORY SEALED CONTROLS - ORDERING INFORMATION 4



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 Class II, Div. 1 & 2, Groups E, F, G
 Class III
 NEMA 3, 7 (C,D) 9 (E,F,G)

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FEATURES-SPECIFICATIONS

Keyed Selector Switch

SEAL-XM TWO POSITION KEYED SELECTOR SWITCH - MAINTAINED CONTACT				
CATALOG NUMBER		HUB SIZE	LEFT POSITION	RIGHT POSITION
BOX & COVER ^①				
DEAD-END	FEED-THRU			
FXCS-1K2A1-M	FXCS-4K2A1-M	1/2"		
FXCS-2K2A1-M	FXCS-5K2A1-M	3/4"		
FXCS-1K2A5-M	FXCS-4K2A5-M	1/2"		
FXCS-2K2A5-M	FXCS-5K2A5-M	3/4"		

SEAL-XM THREE POSITION KEYED SELECTOR SWITCH - MAINTAINED CONTACT					
CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
BOX & COVER ^①					
DEAD-END	FEED-THRU				
FXCS-1K3C4-M	FXCS-4K3C4-M	1/2"			
FXCS-2K3C4-M	FXCS-5K3C4-M	3/4"			
FXCS-1K3C5-M	FXCS-4K3C5-M	1/2"			
FXCS-2K3C5-M	FXCS-5K3C5-M	3/4"			

SEAL-XM TWO POSITION KEYED SELECTOR SWITCH - SPRING RETURN				
CATALOG NUMBER		HUB SIZE	LEFT POSITION	RIGHT POSITION
BOX & COVER ^①				
DEAD-END	FEED-THRU			
FXCS-1K2L3F22D-M	FXCS-4K2L3F22D-M	1/2"		
FXCS-2K2L3F22D-M	FXCS-5K2L3F22D-M	3/4"		

SELECTOR SWITCH OPERATION - SPRING RETURN TO LEFT FROM RIGHT - MAINTAINED IN LEFT.

SEAL-XM THREE POSITION KEYED SELECTOR SWITCH - SPRING RETURN					
CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
BOX & COVER ^①					
DEAD-END	FEED-THRU				
FXCS-1K3M6G32D-M	FXCS-4K3M6G32D-M	1/2"			
FXCS-2K3M6G32D-M	FXCS-5K3M6G32D-M	3/4"			

SELECTOR SWITCH - OPERATION - SPRING RETURN TO CENTER FROM LEFT AND RIGHT - MAINTAINED IN CENTER

CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
DEAD-END	FEED-THRU				
FXCS-1K3L6G32D-M	FXCS-4K3L6G32D-M	1/2"			
FXCS-2K3L6G32D-M	FXCS-5K3L6G32D-M	3/4"			

SELECTOR SWITCH - OPERATION - SPRING RETURN TO CENTER FROM RIGHT - MAINTAINED CENTER AND LEFT

CATALOG NUMBER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION
DEAD-END	FEED-THRU				
FXCS-1K3R6G32D-M	FXCS-4K3R6G32D-M	1/2"			
FXCS-2K3R6G32D-M	FXCS-5K3R6G32D-M	3/4"			

SELECTOR SWITCH - OPERATION - SPRING RETURN TO CENTER FROM LEFT - MAINTAINED CENTER AND RIGHT

① Replace -M with -MB for Group "B" Rating, -MI for Iron Back Box, -MBI for Group "B" and Iron Back Box.
 * Group "B" (-MB & -MBI) versions need not be sealed within first 60" of conduit. Sealing fittings required beyond 60". Randomly Keyed. For keyed alike Maintained Contact Switch add "A" to cat. No. ie. FXCS-1K2A1A-M. For keyed alike Spring Return Switch replace "D" with "A" in cat. No. ie. FXCS-1K2L3F22A-M
 For other than standard marking, see page C59 and order separately or as modified products.
 STANDARD NAMEPLATE MARKINGS – 2 Positions – BLANK & OFF-ON – 3 Positon – BLANK or HAND-OFF-AUTO