

KILLARK Hazardous Location Controls FXCS Series Factory Sealed Controls Overview

Applications, Features, Listings, and Electrical Ratings



Applications

Factory sealed pushbutton stations, selector switches and pilot lights 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

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- Class I, Zones 1 & 2, Groups IIB, IIA



Features

- Eliminates external sealing requirements
- Lower installation cost
- NEMA 3 weatherproof
- Color coded wiring
- More wiring space for easier field installation
- Stainless steel captive screws for cover assembly
- Ground boss for grounding in the splice box
- Cast conduit hubs 1/2", 3/4" and 1" NPT either dead end or feed through standard in both single and two-gang assemblies
- Pushbutton, selector switches and pilot light bodies are copper-free aluminum
- Operating shaft in both pushbuttons and selector switches are stainless steel
- Miniature and standard size pushbuttons. (miniature 3/4" overall diameter, standard 1 3/8" overall diameter)

Factory sealed devices eliminate the need for external sealing. The difference is the use of a sealing plate between the arcing device and the junction box. The sealing plate confines ignited gases, vapors, flames, or dust to the arcing device chamber, preventing them from traveling through the conduit system. Accurately ground flanges on both sides of the sealing plate provide flame-tight joints. Factory poured seals around the wiring pigtails ensure safe sealing.

Contact Specifications

All contacts are break before make. Replacement contacts are not available for any of our Killark hazardous duty controls.

AC Ratings				
Current	120 VAC	240 VAC	480 VAC	600 VAC
Inrush	60	30	15	12
Breaking	6	3	1.5	1.2
Carrying	10	10	10	10

DC Ratings (Max. Amps)		
Current	125 VDC	250 VDC
Inrush	0.55	0.275
Breaking	0.55	0.275
Carrying	2.50	2.5

FXCS Specifications	
Dielectric Strength	2.5 kV (1 minute)
Electrical Endurance	5 million operations at rated load
Operating Frequency	3,000 per hour
Mechanical Endurance	Momentary: 5 x 10 ⁶ Push-pull and selector: 2 x 10 ⁶
LED Consumption	4-6 mA at 110 to 130 VAC/VDC
Wire Leads	6.5 inches, 18 AWG
Operating Temperature	-4 to 104°F (-20 to 40°C)
Device Bodies and Covers Materials	Copper-free Aluminum
Cover Bolts Material	1/4-20 x 1.10 inch Stainless Steel
Cover Tightening	After tightly attaching cover to device box, check with a 0.0015 inch feeler gauge; it should enter gap more than 1/8 inch.

KILLARK XCS Series Cover Assemblies and Control Stations - Selector Switches



Selector Switch

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
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XCS Two-Position Spring Return Selector Switch								
Part Number (cover included)	Price	Drawing Link	Description	Left Position Left Contact	Left Position Right Contact	Right Position Left Contact	Right Position Right Contact	Legend Plate Marking*
XCS-0S2L3F		PDF	1 N.O. / 1 N.C., spring return from right; requires SWB series deep style splice/device box					"OFF ON"

XCS Three-Position Spring Return Selector Switches											
Part Number (cover included)	Price	Drawing Link	Description	Left Position Left Contact	Left Position Right Contact	Center Position Left Contact	Center Position Right Contact	Right Position Left Contact	Right Position Right Contact	Knob Color	Legend Plate Marking*
XCS-0S3M6G		PDF	2 N.O., spring return to center from left and right; requires SWB series deep style splice/device box							Black	"HAND OFF AUTO"
XCS-0S3L6G		PDF	2 N.O., spring return to center from right, maintained in center and left; requires SWB series deep style splice/device box							Black	"HAND OFF AUTO"
XCS-0S3R6G		PDF	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box							Black	"HAND OFF AUTO"

* We also offer a large selection of optional legend plates. See accessories later in this section.

KILLARK SWB Series Splice/Device Boxes For Use With XCS Cover Assemblies



SWB-2



SWB-5



SWB-8



SWB-11



SWB-42

Listings

- UL Listed; File E53360
- Class I, Div. 1 & 2, Groups C, D
- Class II, Div. 1 & 2, Groups E, F, G
- Class III
- NEMA 3, 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11712
- Class I, Zones 1 & 2, Groups IIB, IIA



SWB Device Bodies				
Part Number	Price	Drawing Link	Description	Hub Size (inches)
<u>SWB-2</u>		PDF	Single gang / Dead-end	3/4
<u>SWB-5</u>		PDF	Single gang / Feed-through	3/4
<u>SWB-8</u>		PDF	Double gang / Dead-end	3/4
<u>SWB-11</u>		PDF	Double gang / Feed-through	3/4
<u>SWB-42</u>		PDF	Single gang / Dead-end / Deep style	3/4
<u>SWB-45</u>		PDF	Single gang / Feed-through / Deep style	3/4