KILLARK SWB/XCS Series Control Stations Overview - External Sealing Required













Applications

- 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

- Device bodies and covers are cast copper-free Aluminum alloy and provide a wide assortment for custom assemblies
- Cast conduit hubs, 3/4", either dead end or feed through standard in both single and two-gang device bodies
- Ground flange joint between bolted cover and box provide required flame path
- Pushbutton, selector switches and pilot light bodies are copper-free aluminum
- Operating shaft in both pushbuttons and selector switches are stainless steel
- Open space between gangs for easy wiring from one cover to another
- Miniature and standard size pushbuttons. (miniature 3/4" overall diameter, standard 1 3/8" overall diameter)
- Internal ground screw

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 7 (C, D) 9 (E, F, G)
- CSA Certified; File LR11714
- Class I, Zones 1 & 2, Groups IIB, IIA





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						

XCS	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
Electrical Connections	14 to 20 AWG max., solid or stranded
Terminal Torque	1.8 Nm (15.75 in-lbs)
Lamp Connections	9 inch leads, 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 7/8 inch Stainless Steel
Bolt Tightening Torque	After tightly attaching cover to device box, check with a 0.0015 inch feeler gauge; it should not enter the flame path joint more than 1/8 inch.

KILLARK XCS Series Cover Assemblies and Control Stations - Pushbuttons

Pushbuttons and Pushbutton/Pilot Light Assemblies



Single Pushbutton





Double Pushbutton Pus

Push-Pull Mushroom Maintained Pushbutton

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



	XCS Momentary Contact Single Pushbutton										
Part Number (cover included)	Price - Ilectrintion Ilianiam Piichhitton I										
XCS-0B1	\$201.00	PDF	1 N.O. momentary	<u></u>	Green	"START"					
XCS-0B2	\$201.00	PDF	1 N.C. momentary	• •	Red	"STOP"					
XCS-0B3	\$238.00	PDF	1 N.O. / 1 N.C. momentary	• •	Black	Blank plate					

	XCS Momentary Contact Double Pushbutton										
Part Number (cover included)	Price	Drawing Link	Description	Description Diagram		Legend Plate Marking*					
XCS-0B4	\$264.00	<u>PDF</u>	Green operator has 1 N.O. momentary contact and red operator has 1 N.C. momentary contact	<u> </u>	Green Red	"START STOP"					
XCS-0B4-U	\$342.00	PDF	Each operator has 1 N.O. and 1 N.C. momentary contact	• • • •	Green Red	"START STOP"					
XCS-0B5	\$264.00	PDF	Each operator has 1 N.O. momentary contact	<u> </u>	Green Green	"START START"					
XCS-0B7	\$341.00	PDF	Each operator has 1 N.O. and 1 N.C. momentary contact	::::::	Black Black	Two blank plates					

	XCS Maintained Contact Push-Pull Mushroom Pushbutton										
Part Number (cover included)	Price	Drawing Link	Description	Diagram	Pushbutton Color	Legend Plate Marking*					
XCS-0MMG3	\$647.00	PDF	1 N.O. / 1 N.C. push-pull maintained	• •	Green	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					
XCS-0MMR3	\$604.00	PDF	1 N.O. / 1 N.C. push-pull maintained	• •	Red	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					
XCS-0MMK3	\$647.00	PDF	1 N.O. / 1 N.C. push-pull maintained	•	Black	Three 2-sided legend plates included: "STOP / STOP"; "EMERGENCY STOP / RESET"; Blank plate / "RESET"					

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

KILLARK XCS Series Control Station Cover Assemblies - Pilot Lights







Double Pilot Light



Pilot Light / Pushbutton



Pilot Light / Two Mini Pushbutton

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





	XCS Pilot Light											
Part Number (cover included)	Price	Drawing Link	Description	Diagram	LED Voltage	Lens Color	Legend Plate Marking					
XCS-0B24ALD	\$370.00	PDF	Single pilot light		110 VAC/VDC	Amber	Blank plate					
XCS-0B24CLD	\$296.00	PDF	Single pilot light		110 VAC/VDC	Clear	Blank plate					
XCS-0B24GLD	\$259.00	PDF	Single pilot light		110 VAC/VDC	Green	Blank plate					
XCS-0B24RLD	\$259.00	PDF	Single pilot light		110 VAC/VDC	Red	Blank plate					

	XCS Double Pilot Light											
Part Number (cover included)	Price	Drawing Link	Description	Diagram	LED Voltage	Lens Colors	Legend Plate Marking					
XCS-0B30ALD	\$631.00	PDF	Two pilot lights		110 VAC/VDC	Amber Amber	Two blank plates					
XCS-0B30CLD	\$380.00	PDF	Two pilot lights	O O	110 VAC/VDC	Clear Clear	Two blank plates					
XCS-0B30GLD	\$361.00	PDF	Two pilot lights	O O	110 VAC/VDC	Green Green	Two blank plates					
XCS-0B30RLD	\$538.00	PDF	Two pilot lights	O O	110 VAC/VDC	Red Red	Two blank plates					
XCS-0B30RLD-GLD	\$380.00	PDF	Two pilot lights	(4)	110 VAC/VDC	Red Green	Two blank plates					

	XCS Momentary Contact Pushbutton and Pilot Light											
Part Number (cover included)	Price	Drawing Link	Description	Diagram	LED Voltage	Pushbutton Color	Lens Color	Legend Plate Marking				
XCS-0B13-CD	\$267.00	PDF	1 N.C. momentary operator and pilot light	•1•	110 VAC/VDC	Red	Clear	Pushbutton: "STOP" Pilot light: Blank plate				
XCS-0B13-OD	\$267.00	PDF	1 N.O. momentary operator and pilot light	<u>+•</u> •	110 VAC/VDC	Green	Red	Pushbutton: "START" Pilot light: Blank plate				
XCS-0B13-UD	\$337.00	PDF	1 N.O. / 1 N.C. momentary and pilot light	•!• ()	110 VAC/VDC	Black	Red	Two blank plates				

	XCS Two Mini Momentary Contact Pushbuttons and Pilot Light									
Part Number (cover included)	Price	Drawing Link	Description	Diagram	LED Voltage	Pushbutton Colors	Lens Color	Legend Plate Marking		
XCS-0A15D	\$424.00	PDF	Mini red operator with 1 N.C. momentary contact and mini green operator with 1 N.O. momentary contact, and pilot light		110 VAC/VDC	Green Red	Red	N.O. Pushbutton: "START" N.C. Pushbutton: "STOP" Pilot light: Blank plate		

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

KILLARK XCS Series Cover Assemblies and Control Stations - Selector Switches



Selector Switch



Key-Operated Selector Switch

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





	XCS Two-Position Maintained Contact Selector Switches											
Part Number (cover included)	price 5 Hecrintian 5 Knon I color 5 Knon I color 5											
XCS-0S2A1	\$264.00	PDF	1 N.O. / 1 N.C.		<u>• •</u>		• •	Black	"OFF ON"			
XCS-0S2A5	\$345.00	PDF	2 N.O. / 2 N.C.	• •	• •	• •	• •	Black	"OFF ON"			

	XCS Two-Position Key-Operated Maintained Contact Selector Switches											
Part Number (cover included)	Price	Drawing Link	Description	Left Position Left Contact	Left Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key Removal	Legend Plate Marking*			
XCS-0K2A1A	\$340.00	<u>PDF</u>	1 N.O. / 1 N.C.		• •	<u> </u>	<u>• •</u>	Any position	"OFF ON"			
XCS-0K2A5A	\$411.00	PDF	2 N.O. / 2 N.C.	• •	• •	• •	• •	Any position	"OFF ON"			

	XCS Three-Position Maintained Contact 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-0S3C4	\$264.00	PDF	1 N.O. / 1 N.C.	<u> </u>	<u>• •</u>	<u></u>	<u>• •</u>	• •	• •	Black	"HAND OFF AUTO"
XCS-0S3C5	\$345.00	PDF	2 N.O. / 2 N.C.	•	•	•	• •	• • •	•	Black	"HAND OFF AUTO"

	XCS Three-Position Key-Operated Maintained Contact 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	Key Removal	Legend Plate Marking*
XCS-0K3C4A	\$326.00	PDF	1 N.O. / 1 N.C.	<u></u>	<u>• •</u>		<u>• •</u>	<u> </u>	<u>• •</u>	Any position	"HAND OFF AUTO"
XCS-0K3C5A	\$411.00	PDF	2 N.O. / 2 N.C.	•	•	• •	• •	• •	• •	Any position	"HAND OFF AUTO"

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

KILLARK XCS Series Cover Assemblies and Control Stations - Selector Switches



Selector Switch

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





	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	\$357.00	PDF	1 N.O. / 1 N.C., spring return from right; requires SWB series deep style splice/device box	<u></u>	• •	• •	<u> </u>	"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	\$357.00	PDF	2 N.O., spring return to center from left and right; requires SWB series deep style splice/device box	<u></u>	<u></u>	<u></u>		• •		Black	"HAND OFF AUTO"	
XCS-0S3L6G	\$357.00	PDF	2 N.O., spring return to center from right, maintained in center and left; requires SWB series deep style splice/device box	• •	<u> </u>			<u>.</u>		Black	"HAND OFF AUTO"	
XCS-0S3R6G	\$357.00	PDF	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box	<u></u>	• •	••	••	• •	•••	Black	"HAND OFF AUTO"	

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

KILLARK XCS Series Cover Assemblies and Control Stations



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





		XCS Two-Position Key-Operated Spring Return Selector Switches										
Part Number (cover included) Price Drawing Link Description		Left Position Left Contact	Left Position Right Contact	Right Position Left Contact	Right Position Right Contact	Key Removal	Legend Plate Marking*					
	XCS-0K2L3F22A	\$364.00	PDF	1 N.O. / 1 N.C., spring return from right; requires SWB series deep style splice/device box		• •	• •	<u> </u>	left position only	"OFF ON"		

	XCS Three-Position Key-Operated 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	Key Removal	Legend Plate Marking*
XCS-0K3M6G32A	\$460.00	<u>PDF</u>	2 N.O., spring return to center from left and right; requires SWB series deep style splice/ device box		<u></u>			••			"HAND OFF AUTO"
XCS-0K3L6G32A	\$460.00	<u>PDF</u>	2 N.O., spring return to center from right, maintained in center and left; requires SWB series deep style splice/device box		<u> </u>			<u></u>		center position only	"HAND OFF AUTO"
XCS-0K3R6G32A	\$460.00	<u>PDF</u>	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box		<u> </u>	<u> </u>	••	<u> </u>	<u></u>		"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

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









SWB-11

SWB-42

	SWB Device Bodies								
Part Number	Price	Drawing Link	Description	Hub Size (inches)					
SWB-2	\$66.00	PDF	Single gang / Dead-end	3/4					
SWB-5	\$67.00	PDF	Single gang / Feed-through	3/4					
SWB-8	\$129.00	PDF	Double gang / Dead-end	3/4					
<u>SWB-11</u>	\$128.00	PDF	Double gang / Feed-through	3/4					
SWB-42	\$187.00	PDF	Single gang / Dead-end / Deep style	3/4					
SWB-45	\$230.00	PDF	Single gang / Feed-through / Deep style	3/4					

KILLARK Accessories and Replacement Parts

Sealing Fitting

The purpose of seals in a Class I hazardous location is to minimize the passage of gases and vapors and prevent the passage of flames from one electrical installation to another through the conduit system. Consult the electrical code or your local inspector for more detailed information.



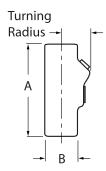
ENY-2 Sealing Fitting

	ENY-2 Sealing Fitting Dimensions								
Part Number	Price	Hub Size	Dimensio	Turning Radius*					
rait Nullibel	FIICE	(inch)	A	В	Turning natios				
<u>ENY-2</u>	\$31.50	3/4	4-1/16 (103)	2-1/16 (52)	1-9/32 (33)				

^{*}Use Turning Radius to help determine if sealing fitting will fit properly in your installation.

ENY-2 Sealing Fitting

- Suitable for vertical or horizontal installation
- Copper-free aluminum (less than 0.4 %)
- · Electro-statically applied powder coating



Sealing Compound and Packing Fiber

Ounces Required per Fitting							
Sealing Fitting Hub Size Sealing Compound Packing Fibe							
ENY-2	3/4	2 oz.	1/8 oz.				

Sealing Compound

SC series sealing compound is a cement used extensively for sealing conduit to prevent the spread of explosive gases.

- · Non-shrinking and forms a secure seal
- · Resists acids, water, oil, etc.
- UL listed when used with ENY series sealing fittings
- CE certified when used with any CSA certified sealing fitting

Packing Fiber

- Made from environmentally safe, non-asbestos material
- Easy to use and forms a positive dam to hold sealing compound

Sealing Compound								
Part Number	Price	Size						
SC-4-OZ	\$12.50	4-ounce container						
SC-8-OZ	\$12.50	8-ounce container						
SC-1-LB	\$23.00	1-pound container						

Packing Fiber								
Part Number Price Size								
<u>PF-2</u>	\$30.00	2-ounce container						
<u>PF-4</u>	\$54.00	4-ounce container						
PF-16	\$159.00	1-pound container						



Sealing Compound



Packing Fiber

KILLARK Accessories and Replacement Parts - Continued

Accessories and Replacement Parts Overview

We offer an accessory blank cover, a large selection of legend plates, and replacement keys and LEDs.

Replacement contacts are not available for any of our Killark hazardous duty controls. We also do not offer replacement switches, covers, or bolts.

Blank Cover and Replacement Key







KEY-C002B Replacement Key

Bla	Blank Cover and Replacement Key									
Part Number	Description									
<u>X-10</u>	\$71.00	<u>PDF</u>	Blank cover for use with splice/device boxes.							
KEY-C002B	\$15.00	N/A	Replacement key for FXCS and XCS series key-operated selector switches.							

Replacement LED Lamps



Replacement 110 VAC/VDC LED lamps for FXCS and XCS series pilot lights.

Replacement LED Lamps						
Part Number	Price	Color	Volts AC/DC			
GOLED-A110	\$69.00	Amber	- 110 VAC/VDC			
GOLED-G110	\$69.00	Green				
GOLED-R110	\$69.00	Red				
GOLED-W110	\$69.00	White				

KILLARK Accessories - Legend Plates

Legend Plates

- Engraved aluminum legend plates with red fields.
- Three screws included with each legend plate
- Use with XCS and FXCS series devices







XCSNP-HIGH-LOW

XCSNP-RESET

XCSNP-ON-OFF

Legend Plates						
Legend	Color of Field	Part Number	Price			
Blank plate	Red	XCSNP-BLANK	\$15.00			
"CLOSE"	Red	XCSNP-CLOSE	\$15.00			
"DOWN"	Red	XCSNP-DOWN	\$15.00			
"EMERG STOP"	Red	XCSNP-ESTOP	\$15.00			
"FAST"	Red	XCSNP-FAST	\$15.00			
"FORWARD"	Red	XCSNP-FORWARD	\$15.00			
"HIGH"	Red	XCSNP-HIGH	\$15.00			
"IN"	Red	XCSNP-IN	\$15.00			
"INCH"	Red	XCSNP-INCH	\$15.00			
"JOG"	Red	XCSNP-JOG	\$15.00			
"JOG FWD"	Red	XCSNP-JOG-FORWARD	\$15.00			
"JOG REV"	Red	XCSNP-JOG-REVERSE	\$15.00			
"LOW"	Red	XCSNP-LOW	\$15.00			
"LOWER"	Red	XCSNP-LOWER	\$15.00			
"MOTOR RUN"	Red	XCSNP-MOTOR-RUN	\$15.00			
"MOTOR STOP"	Red	XCSNP-MOTOR-STOP	\$15.00			
"OFF"	Red	XCSNP-OFF	\$15.00			
"ON"	Red	XCSNP-ON	\$15.00			
"OPEN"	Red	XCSNP-OPEN	\$15.00			
"OUT"	Red	XCSNP-OUT	\$15.00			
"POWER ON"	Red	XCSNP-POWER-ON	\$15.00			
"RAISE"	Red	XCSNP-RAISE	\$15.00			
"READY"	Red	XCSNP-READY	\$15.00			
"RESET"	Red	XCSNP-RESET	\$15.00			
"REVERSE"	Red	XCSNP-REVERSE	\$15.00			
"RUN"	Red	XCSNP-RUN	\$15.00			
"SLOW"	Red	XCSNP-SLOW	\$15.00			
"START"	Red	XCSNP-START	\$15.00			
"STOP"	Red	XCSNP-STOP	\$15.00			
"TEST"	Red	XCSNP-TEST	\$15.00			

Legend Plates					
Legend	Color of Field	Part Number	Price		
"UP"	Red	XCSNP-UP	\$15.00		
"FWD REV"	Red	XCSNP-FWD-REV	\$15.00		
"HAND AUTO"	Red	XCSNP-HAND-AUTO	\$15.00		
"ON OFF"	Red	XCSNP-ON-OFF	\$15.00		
"OFF ON"	Red	XCSNP-OFF-ON	\$15.00		
"START STOP"	Red	XCSNP-START-STOP	\$15.00		
"UP DOWN"	Red	XCSNP-UP-DOWN	\$15.00		
"RUN JOG"	Red	XCSNP-RUN-JOG	\$15.00		
"JOG RUN"	Red	XCSNP-JOG-RUN	\$15.00		
"AUTO HAND"	Red	XCSNP-AUTO-HAND	\$15.00		
"MAN AUTO"	Red	XCSNP-MANUAL-AUTO	\$15.00		
"OFF REMOTE"	Red	XCSNP-OFF-REMOTE	\$15.00		
"START JOG"	Red	XCSNP-START-JOG	\$15.00		
"HIGH LOW"	Red	XCSNP-HIGH-LOW	\$15.00		
"OPEN CLOSE"	Red	XCSNP-OPEN-CLOSE	\$15.00		
"RAISE LOWER"	Red	XCSNP-RAISE-LOWER	\$15.00		
"SLOW FAST"	Red	XCSNP-SLOW-FAST	\$15.00		
"FWD OFF REV"	Red	XCSNP-FWD-OFF-REV	\$15.00		
"HAND OFF AUTO"	Red	XCSNP-HAND-OFF-AUT	\$15.00		
"RUN OFF JOG"	Red	XCSNP-RUN-OFF-JOG	\$15.00		
"REV OFF FWD"	Red	XCSNP-REV-OFF-FWD	\$15.00		
"AUTO OFF HAND"	Red	XCSNP-AUT-OFF-HAND	\$15.00		
"HAND OFF REMOTE"	Red	XCSNP-HAND-OFF-REM	\$15.00		
"JOG OFF RUN"	Red	XCSNP-JOG-OFF-RUN	\$15.00		
"STOP RUN START"	Red	XCSNP-STP-RUN-STRT	\$15.00		
"LOCAL OFF REM"	Red	XCSNP-LOCL-OFF-REM	\$15.00		
"LOW OFF HIGH"	Red	XCSNP-LOW-OFF-HIGH	\$15.00		
"RAISE OFF LOWER"	Red	XCSNP-RAS-OFF-LOWR	\$15.00		
"SLOW OFF FAST"	Red	XCSNP-SLOW-OFF-FST	\$15.00		

tPIL-199

www.automationdirect.com Pilot Devices