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



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

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

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



Push-Pull Mushroom Maintained Pushbutton

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

XCS Momentary Contact Single Pushbutton						
Part Number (cover included)	*Price*	*Drawing Link*	*Description*	*Diagram*	*Pushbutton Color*	*Nameplate Marking**
XCS-0B1		PDF	1 N.O. momentary		Green	"START"
XCS-0B2		PDF	1 N.C. momentary		Red	"STOP"
XCS-0B3		PDF	1 N.O. / 1 N.C. momentary		Black	Blank plate

XCS Momentary Contact Double Pushbutton						
Part Number (cover included)	*Price*	*Drawing Link*	*Description*	*Diagram*	*Pushbutton Colors*	*Legend Plate Marking**
XCS-0B4		PDF	Green operator has 1 N.O. momentary contact and red operator has 1 N.C. momentary contact		Green Red	"START STOP"
XCS-0B4-U		PDF	Each operator has 1 N.O. and 1 N.C. momentary contact		Green Red	"START STOP"
XCS-0B5		PDF	Each operator has 1 N.O. momentary contact		Green Green	"START START"
XCS-0B7		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		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		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		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



Pilot Light



Double Pilot Light



Pilot Light / Pushbutton



Pilot Light / Two Mini Pushbutton

Listings

- 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		PDF	Single pilot light		110 VAC/VDC	Amber	Blank plate
XCS-0B24GLD		PDF	Single pilot light		110 VAC/VDC	Green	Blank plate
XCS-0B24RLD		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		PDF	Two pilot lights		110 VAC/VDC	Amber Amber	Two blank plates
XCS-0B30CLD		PDF	Two pilot lights		110 VAC/VDC	Clear Clear	Two blank plates
XCS-0B30GLD		PDF	Two pilot lights		110 VAC/VDC	Green Green	Two blank plates
XCS-0B30RLD		PDF	Two pilot lights		110 VAC/VDC	Red Red	Two blank plates
XCS-0B30RLD-GLD		PDF	Two pilot lights		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		PDF	1 N.C. momentary operator and pilot light		110 VAC/VDC	Red	Clear	Pushbutton: "STOP" Pilot light: Blank plate
XCS-0B13-OD		PDF	1 N.O. momentary operator and pilot light		110 VAC/VDC	Green	Red	Pushbutton: "START" Pilot light: Blank plate
XCS-0B13-UD		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		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

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

XCS Two-Position 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	Knob Color	Legend Plate Marking*
XCS-0S2A1		PDF	1 N.O. / 1 N.C.					Black	"OFF ON"
XCS-0S2A5		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		PDF	1 N.O. / 1 N.C.					Any position	"OFF ON"
XCS-0K2A5A		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		PDF	1 N.O. / 1 N.C.							Black	"HAND OFF AUTO"
XCS-0S3C5		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		PDF	1 N.O. / 1 N.C.							Any position	"HAND OFF AUTO"
XCS-0K3C5A		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

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

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 XCS Series Cover Assemblies and Control Stations



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

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		PDF	2 N.O., spring return to center from left and right; requires SWB series deep style splice/ device box							center position only	"HAND OFF AUTO"
XCS-0K3L6G32A		PDF	2 N.O., spring return to center from right, maintained in center and left; requires SWB series deep style splice/device box								"HAND OFF AUTO"
XCS-0K3R6G32A		PDF	2 N.O., spring return to center from left, maintained in center and right; requires SWB series deep style splice/device box								"HAND OFF AUTO"

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

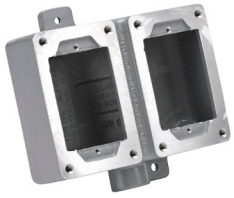
KILLARK SWB Series Splice/Device Boxes For Use With XCS Cover Assemblies



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 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)*
SWB-2		PDF	Single gang / Dead-end	3/4
SWB-5		PDF	Single gang / Feed-through	3/4
SWB-8		PDF	Double gang / Dead-end	3/4
SWB-11		PDF	Double gang / Feed-through	3/4
SWB-42		PDF	Single gang / Dead-end / Deep style	3/4
SWB-45		PDF	Single gang / Feed-through / Deep style	3/4

KILLARK Accessories and Replacement Parts

Sealing Fitting

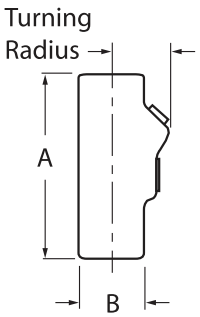
The purpose of seals in a Class I hazardous location is to minimize the passage of gases and vapors and prevent the passage of flames from one electrical installation to another through the conduit system. Consult the electrical code or your local inspector for more detailed information.



ENY-2
Sealing Fitting

ENY-2 Sealing Fitting Dimensions					
Part Number	*Price*	*Hub Size (inch)*	*Dimensions (in-mm)*		*Turning Radius**
			A	*B*	
ENY-2		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 (inch)*	*Sealing Compound*	*Packing Fiber*
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

Sealing Compound		
Part Number	*Price*	*Size*
SC-4-OZ		4-ounce container
SC-8-OZ		8-ounce container
SC-1-LB		1-pound container



Sealing Compound

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

Packing Fiber		
Part Number	*Price*	*Size*
PF-2		2-ounce container
PF-4		4-ounce container
PF-16		1-pound container



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



X-10
Blank Cover



KEY-C002B
Replacement Key

Blank Cover and Replacement Key			
Part Number	***Price***	***Drawing Link***	***Description***
X-10		PDF	Blank cover for use with splice/device boxes.
KEY-C002B		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		Amber	110 VAC/VDC
GOLED-G110		Green	
GOLED-W110		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	
"CLOSE"	Red	XCSNP-CLOSE	
"DOWN"	Red	XCSNP-DOWN	
"EMERG STOP"	Red	XCSNP-ESTOP	
"FAST"	Red	XCSNP-FAST	
"FORWARD"	Red	XCSNP-FORWARD	
"HIGH"	Red	XCSNP-HIGH	
"IN"	Red	XCSNP-IN	
"INCH"	Red	XCSNP-INCH	
"JOG"	Red	XCSNP-JOG	
"JOG FWD"	Red	XCSNP-JOG-FORWARD	
"JOG REV"	Red	XCSNP-JOG-REVERSE	
"LOW"	Red	XCSNP-LOW	
"LOWER"	Red	XCSNP-LOWER	
"MOTOR RUN"	Red	XCSNP-MOTOR-RUN	
"MOTOR STOP"	Red	XCSNP-MOTOR-STOP	
"OFF"	Red	XCSNP-OFF	
"ON"	Red	XCSNP-ON	
"OPEN"	Red	XCSNP-OPEN	
"OUT"	Red	XCSNP-OUT	
"POWER ON"	Red	XCSNP-POWER-ON	
"RAISE"	Red	XCSNP-RAISE	
"READY"	Red	XCSNP-READY	
"RESET"	Red	XCSNP-RESET	
"REVERSE"	Red	XCSNP-REVERSE	
"RUN"	Red	XCSNP-RUN	
"SLOW"	Red	XCSNP-SLOW	
"START"	Red	XCSNP-START	
"STOP"	Red	XCSNP-STOP	
"TEST"	Red	XCSNP-TEST	

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