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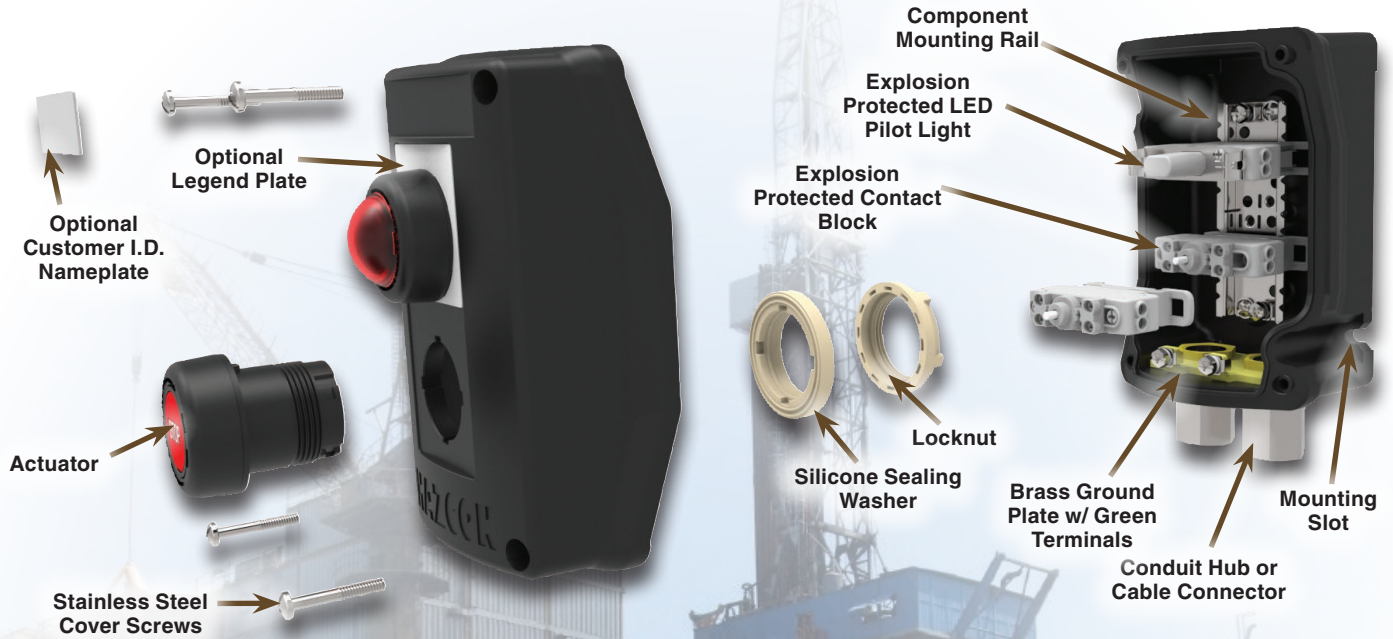
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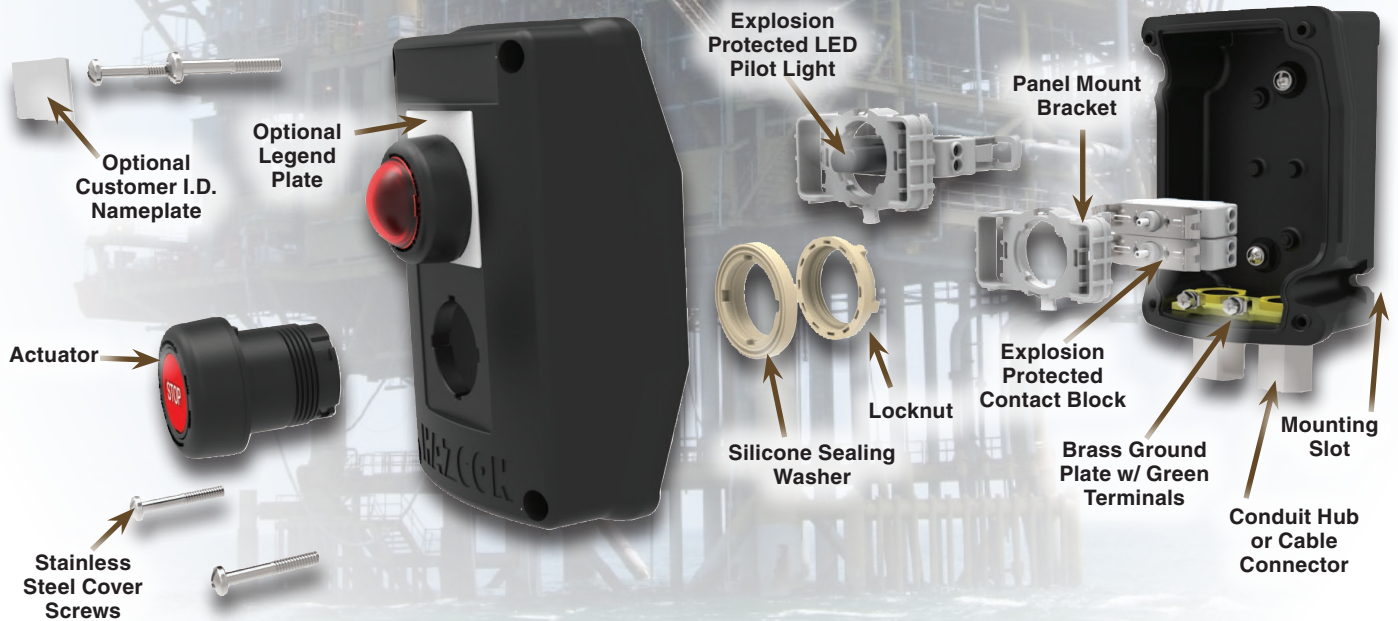


CONTROLS HKH SERIES

NON-METALLIC DIN RAIL MOUNT



NON-METALLIC PANEL MOUNT





NON-METALLIC CONFIGURATIONS

HAZCON®



ATEX/IECEx Certified

CE 0518 Ex II 2 G Ex db eb IIC T6...T4 Gb
0518 Ex II 2 D Ex tb IIIC T6...T4 Db IP66

DEMKO 15 ATEX 1405X

Ex db eb IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db IP66

IECEx UL 15.0054X

Ambient Range: -50°C < Ta < 60°C

cULus Certified

Class I, Zone 1, AEx db eb IIC T6...T4 Gb / Ex db eb IIC T6...T4 Gb X

Zone 21, AEx tb IIIC T85°C...T135°C Db IP66 / Ex tb IIIC T85°C...T135°C Db IP66 X

Class I, Division 2, Groups A, B, C, D
Class II, Division 1, Groups E, F, G
(Canada Only)

Class II, Division 2, Groups E, F, G
Class III

UL50, 50E, 508, UL60079-0, -1, -7, -31
Type 3, 4, 4X, 12, 13

Ambient Range: -50°C < Ta < 60°C

Complies with RoHS, WEEE, ATEX and Low Voltage directives.



FEATURES-SPECIFICATIONS

Features

- Size 1 Control Stations available as 1A, 1B, and 1C as standard catalog number offerings for 1, 2, and 3 device openings and will accept 2-M20 entries in either end. Ammeters available in 1B and 1C. Size 2 Enclosures available as 2A and 2C for 2, 4, and 6 device entries in cover with ability to accept 2-M25 entries in either end.
- Operating Temperature of -50°C to +60°C
- Contacts & Pilot lights can be mounted inside enclosure on Din Rail or Panel Mount in cover to the actuator.
- Accessories available for Lockout/Tag Out functions made in 316 stainless steel.

Materials

- Impact Resistant Non-Metallic PA6 Glass Reinforced Antistatic Material with f1 UV protection (protected against the most severe sunlight) and with a Flame Retardant rating of V-0.
- Silicone gasketing on all enclosures and operators throughout.
- Brass gland plates available for metric size applications.

Electrical Ratings

- Explosion Protected Contact Blocks, available in Normally Open (NO) or Normally Closed (NC) configurations, are rated for up to 690VAC, up to 20A Switching duty, and up to 1HP.
- Explosion Protected Pilot Lights rated for 12-250V AC/DC for UL applications and 12-254 V AC/DC for IEC applications.



CONTROLS HKH SERIES

STANDARD SIZE 1A NON-METALLIC CONFIGURATIONS



Momentary
Push Button



Momentary & Maintained
Mushroom P.B.



Pilot Light

The control stations on this page are the most commonly used configurations of pilot lights and push buttons. One entry listed is located at bottom.

HKH MOMENTARY SINGLE PUSH BUTTON							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1AND2P11K8	HKH1ANP2P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	None
HKH1ANDAP11	HKH1ANPAP11	M20 Clearance hole					
supplied with 7 colored and marked discs – see button color							

HKH MOMENTARY SINGLE PUSH BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1AND2M11BK8 HKH1AND2M21AK8 HKH1AND2M310K8	HKH1ANP2M11BK8 HKH1ANP2M21AK8 HKH1ANP2M310K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1ANDAM11B HKH1ANDAM21A HKH1ANDAM310	HKH1ANPAM11B HKH1ANPAM21A HKH1ANPAM310	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH MAINTAINED SINGLE PUSH PULL BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1AND2M41BK8 HKH1AND2M51AK8 HKH1AND2M610K8	HKH1ANP2M41BK8 HKH1ANP2M51AK8 HKH1ANP2M610K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1ANDAM41B HKH1ANDAM51A HKH1ANDAM610	HKH1ANPAM41B HKH1ANPAM51A HKH1ANPAM610	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH SINGLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED		M20 CLEARANCE HOLE SUPPLIED		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1AND2LRL0K8 HKH1AND2LGL0K8 HKH1AND2LAL0K8 HKH1AND2LCL0K8 HKH1AND2LBL0K8	HKH1ANP2LRL0K8 HKH1ANP2LGL0K8 HKH1ANP2LAL0K8 HKH1ANP2LCL0K8 HKH1ANP2LBL0K8	HKH1ANDALRL0 HKH1ANDALGL0 HKH1ANDALALO HKH1ANDALCLO HKH1ANDALBLO	HKH1ANPALRL0 HKH1ANPALGL0 HKH1ANPALALO HKH1ANPALCLO HKH1ANPALBLO			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red LED Green LED Amber LED Clear LED Blue LED	Blank



STANDARD SIZE 1A NON-METALLIC CONFIGURATIONS



**Maintained
Mushroom P.B.
Pull Release**



**Maintained
Mushroom P.B.
Twist Release**



**Double
Momentary
Push Button**

The control stations on this page are the most commonly used configurations of mushroom push buttons and double push buttons. One entry listed is located at bottom.

HKH MAINTAINED MUSHROOM STAY PUT E-STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1AND2M41EK8 (Pull Release) HKH1AND2M71EK8 (Twist Release)	HKH1ANP2M41EK8 (Pull Release) HKH1ANP2M71EK8 (Twist Release)	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red	Emergency Stop
HKH1ANDAM41E (Pull Release) HKH1ANDAM71E (Twist Release)	HKH1ANPAM41E (Pull Release) HKH1ANPAM71E (Twist Release)	M20 Clearance hole					

HKH DOUBLE MOMENTARY PUSH BUTTON, 1 N.O. START/1 N.C. STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1AND2P21K8	HKH1ANP2P21K8	3/4" NPT SS HUB		START STOP	1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	—
HKH1ANDAP21	HKH1ANPAP21	M20 Clearance hole					



CONTROLS HKH SERIES

STANDARD SIZE 1A NON-METALLIC CONFIGURATIONS



**2 Position
Selector Switch Maint. & Mom.**



**3 Position
Selector Switch Maint. & Mom.**

The control stations on this page are the most commonly used configurations of rotary selector switches. One entry listed is located at bottom.

HKH MAINTAINED 2-POSITION SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S11SK8	HKH1ANP2S11SK8	3/4" NPT SS HUB		OFF ON	1 N.C. / 1 N.O.	Off-On
HKH1ANDAS11S	HKH1ANPAS11S	M20 Clearance hole				
HKH 2-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S210K8	HKH1ANP2S210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1ANDAS210	HKH1ANPAS210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S349K8	HKH1ANP2S349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1ANDAS349	HKH1ANPAS349	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S440K8	HKH1ANP2S440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAS440	HKH1ANPAS440	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S540K8	HKH1ANP2S540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAS540	HKH1ANPAS540	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2S640K8	HKH1ANP2S640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAS640	HKH1ANPAS640	M20 Clearance hole				



STANDARD SIZE 1A NON-METALLIC CONFIGURATIONS



2 Position
Key Selector SWT Maint. & Mom.



3 Position
Key Selector SWT Maint. & Mom.

The control stations on this page are the most commonly used configurations of keyed rotary selector switches. One entry hole listed is located at bottom.

HKH MAINTAINED 2-POSITION KEYED SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K11SK8	HKH1ANP2K11SK8	3/4" NPT SS HUB		OFF ON	1 N.C. / 1 N.O.	Off-On
HKH1ANDAK11S	HKH1ANPAK11S	M20 Clearance hole				
HKH 2-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K210K8	HKH1ANP2K210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1ANDAK210	HKH1ANPAK210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION KEYED SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K349K8	HKH1ANP2K349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1ANDAK349	HKH1ANPAK349	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K440K8	HKH1ANP2K440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAK440	HKH1ANPAK440	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K540K8	HKH1ANP2K540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAK540	HKH1ANPAK540	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1AND2K640K8	HKH1ANP2K640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ANDAK640	HKH1ANPAK640	M20 Clearance hole				



CONTROLS HKH SERIES

STANDARD SIZE 1B NON-METALLIC CONFIGURATIONS



Momentary Push Button

Momentary Mushroom P.B.

Momentary Start-Stop Push Buttons

Pilot Light

The control stations on this page are the most commonly used configurations, including combinations of pilot lights and push buttons. One entry listed is located at bottom.

HKH MOMENTARY SINGLE PUSH BUTTON							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BND2P11K8	HKH1BNP2P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	None
HKH1BNDAP11	HKH1BNPAP11	M20 Clearance hole					
supplied with 7 colored and marked discs – see button color							

HKH MOMENTARY SINGLE PUSH BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BND2M11BK8 HKH1BND2M21AK8 HKH1BND2M31OK8	HKH1BNP2M11BK8 HKH1BNP2M21AK8 HKH1BNP2M31OK8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1BNDAM11B HKH1BNDAM21A HKH1BNDAM31O	HKH1BNPAM11B HKH1BNPAM21A HKH1BNPAM31O	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH DOUBLE MOMENTARY START-STOP PUSH BUTTONS							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BND2P11P11K8	HKH1BNP2P11P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Green, Start, (I) Red, Stop, (O)	—
HKH1BNDAP11P11	HKH1BNPAP11P11	M20 Clearance hole			1 N.O. / 1 N.C.		

HKH SINGLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED		M20 CLEARANCE HOLE SUPPLIED		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1BND2LRLOK8 HKH1BND2LGLOK8 HKH1BND2LALOK8 HKH1BND2LCLK8 HKH1BND2LBL0K8	HKH1BNP2LRLOK8 HKH1BNP2LGLOK8 HKH1BNP2LALOK8 HKH1BNP2LCLK8 HKH1BNP2LBL0K8	HKH1BNDALRLO HKH1BNDALGLO HKH1BNDALALO HKH1BNDALCLO HKH1BNDALBLO	HKH1BNPALRLO HKH1BNPALGLO HKH1BNPALALO HKH1BNPALCLO HKH1BNPALBLO			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red LED Green LED Amber LED Clear LED Blue LED	Blank



STANDARD SIZE 1B NON-METALLIC CONFIGURATIONS



**Maintained
Mushroom P.B.
Pull Release**



**Maintained
Mushroom P.B.
Twist Release**



**Double
Pilot Light**



**Pilot Light &
Double Momentary
Push Button**

The control stations on this page are the most commonly used configurations, including combinations of pilot lights and push buttons. One entry listed is located at bottom.

HKH MAINTAINED MUSHROOM STAY PUT E-STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BND2M41EK8 (Pull Release)	HKH1BNP2M41EK8 (Pull Release)	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red	Emergency Stop
HKH1BND2M71EK8 (Twist Release)	HKH1BNP2M71EK8 (Twist Release)						
HKH1BNDAM41E (Pull Release)	HKH1BNPAM41E (Pull Release)	M20 Clearance hole			1 N.O. / 1 N.C.	Red	Emergency Stop
HKH1BNDAM71E (Twist Release)	HKH1BNPAM71E (Twist Release)						

HKH MAINTAINED SINGLE PUSH PULL BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BND2M41BK8 HKH1BND2M51AK8 HKH1BND2M61OK8	HKH1BNP2M41BK8 HKH1BNP2M51AK8 HKH1BNP2M61OK8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1BNDAM41B HKH1BNDAM51A HKH1BNDAM610	HKH1BNPAM41B HKH1BNPAM51A HKH1BNPAM610						

HKH DOUBLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED		M20 CLEARANCE HOLE SUPPLIED		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1BND2LRL0LGL0K8 HKH1BND2LRL0LRL0K8 HKH1BND2LGL0LGL0K8	HKH1BNP2LRL0LGL0K8 HKH1BNP2LRL0LRL0K8 HKH1BNP2LGL0LGL0K8	HKH1BNDALRL0LGL0 HKH1BNDALRL0LRL0 HKH1BNDALGL0LGL0	HKH1BNPALRL0LGL0 HKH1BNPALRL0LRL0 HKH1BNPALGL0LGL0			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red/Green Red/Red Green/Green	Blank

HKH DOUBLE MOMENTARY PUSH BUTTON & PILOT LIGHT								
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKH1BND2LRL0P21K8	HKH1BNP2LRL0P21K8	3/4" NPT SS HUB			12V-254V, AC/DC	1 N.O. 1 N.C.	Green, Start, (I)	—
HKH1BNDALRL0P21	HKH1BNPALRL0P21							



CONTROLS
HKH SERIES

STANDARD SIZE 1B NON-METALLIC CONFIGURATIONS



**2 Position
Selector Switch
Maint. & Mom.**



**3 Position
Selector Switch
Maint. & Mom.**

The control stations on this page are the most commonly used configurations of rotary selector switches. One entry listed is located at bottom.

HKH MAINTAINED 2-POSITION SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S11SK8	HKH1BNP2S11SK8	3/4" NPT SS HUB		OFF ON	1 N.C. / 1 N.O.	Off-On
HKH1BNDAS11S	HKH1BNPAS11S	M20 Clearance hole				
HKH 2-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S210K8	HKH1BNP2S210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1BNDAS210	HKH1BNPAS210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S349K8	HKH1BNP2S349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1BNDAS349	HKH1BNPAS349	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S440K8	HKH1BNP2S440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BNDAS440	HKH1BNPAS440	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S540K8	HKH1BNP2S540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BNDAS540	HKH1BNPAS540	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2S640K8	HKH1BNP2S640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BNDAS640	HKH1BNPAS640	M20 Clearance hole				



STANDARD SIZE 1B NON-METALLIC CONFIGURATIONS



**2 Position
Key Selector SWT
Maint. & Mom.**



**3 Position
Key Selector SWT
Maint. & Mom.**

The control stations on this page are the most commonly used configurations of keyed rotary selector switches. One entry hole listed is located at bottom.

HKH MAINTAINED 2-POSITION KEYED SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K11SK8	HKH1BNP2K11SK8	3/4" NPT SS HUB		OFF ●●	1 N.C. / 1 N.O.	Off-On
HKH1BNDAK11S	HKH1BNPAK11S	M20 Clearance hole		ON ●●		
HKH 2-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K210K8	HKH1BNP2K210K8	3/4" NPT SS HUB		●●	1 N.C. / 1 N.O.	Blank
HKH1BNDAK210	HKH1BNPAK210	M20 Clearance hole		●●		
HKH MAINTAINED 3-POSITION KEYED SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K349K8	HKH1BNP2K349K8	3/4" NPT SS HUB		HAND OFF AUTO ●● ●● ●●	2 N.O.	Hand-Off-Auto
HKH1BNDAK349	HKH1BNPAK349	M20 Clearance hole		●● ●● ●●		
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K440K8	HKH1BNP2K440K8	3/4" NPT SS HUB		●● ●● ●●	2 N.O.	Blank
HKH1BNDAK440	HKH1BNPAK440	M20 Clearance hole		●● ●● ●●		
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K540K8	HKH1BNP2K540K8	3/4" NPT SS HUB		●● ●● ●●	2 N.O.	Blank
HKH1BNDAK540	HKH1BNPAK540	M20 Clearance hole		●● ●● ●●		
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BND2K640K8	HKH1BNP2K640K8	3/4" NPT SS HUB		●● ●● ●●	2 N.O.	Blank
HKH1BNDAK640	HKH1BNPAK640	M20 Clearance hole		●● ●● ●●		



CONTROLS HKH SERIES

STANDARD SIZE 1C NON-METALLIC CONFIGURATIONS



The control stations on this page are the most commonly used configurations, including combinations of pilot lights, push buttons, rotary selector switches, and ammeters.

One entry hole listed is located at bottom.

HKH RED PILOT LIGHT & TWO MOMENTARY PUSH BUTTONS								
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000001	HKHMOD000002	3/4" NPT SS HUB			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	1 N.C.	Red Stop (I)	Blank
HKHMOD000003	HKHMOD000004	M20 Clearance hole						

HKH THREE MOMENTARY PUSH BUTTONS								
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING	
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000005	HKHMOD000006	3/4" NPT SS HUB			1 N.O. / 1 N.C. 1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Green: Start(I)/Blank Red: Stop(O)/Blank Black: Blank	Blank	
HKHMOD000007	HKHMOD000008	M20 Clearance hole						

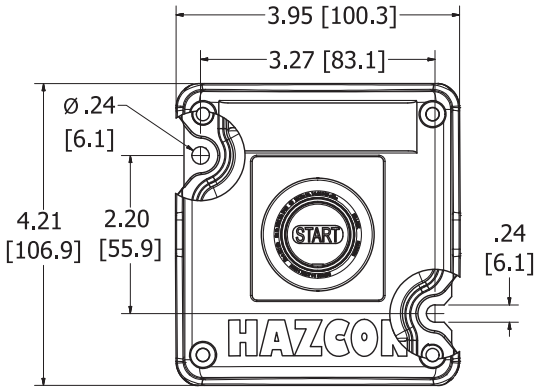
HKH RED PILOT LIGHT, MUSHROOM MAINTAINED P.B., DOUBLE MOMENTARY P.B.								
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000009 (Pull Release)	HKHMOD000010 (Pull Release)	3/4" NPT SS HUB			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Red Green: Start(I)/Blank Red: Stop(O)/Blank	Blank Emergency Stop
HKHMOD000011 (Twist Release)	HKHMOD000012 (Twist Release)							
HKHMOD000013 (Pull Release)	HKHMOD000014 (Pull Release)	M20 Clearance hole			1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Red Green: Start(I)/Blank Red: Stop(O)/Blank	Blank Emergency Stop
HKHMOD000015 (Twist Release)	HKHMOD000016 (Twist Release)							

HKH 72MM AMMETER & 2 POSITION MAINT. SELECTOR SWITCH								
CATALOG NUMBER ^①		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING	
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000017	HKHMOD000018	3/4" NPT SS HUB			1 N.C. / 1 N.O.	—	Blank	
HKHMOD000019	HKHMOD000020	M20 Clearance hole						

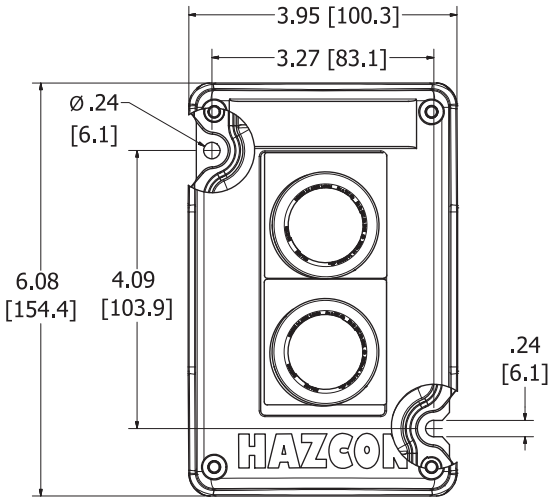
^① Consult Factory for other scale ranges and for Voltmeter options.



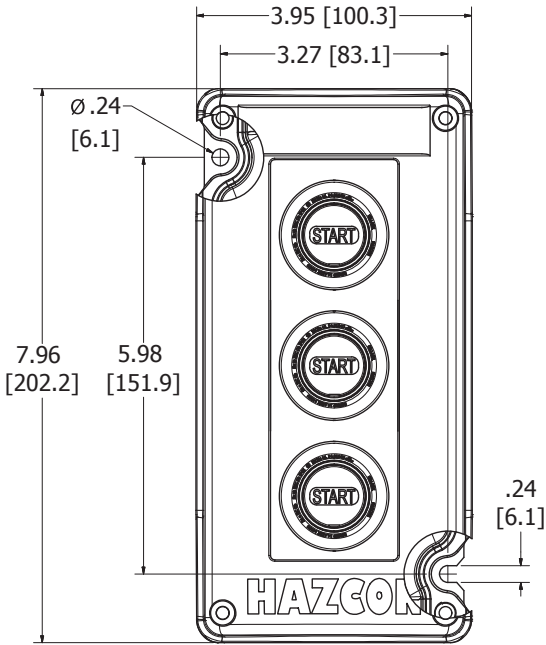
DIMENSIONAL DATA - SIZE 1 NON-METALLIC ENCLOSURES



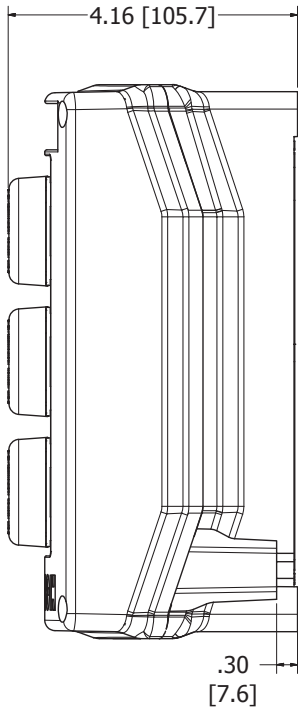
SIZE 1A



SIZE 1B



SIZE 1C



CLEARANCE HOLE FOR NPT FITTING	LOGIC CODE
1/2" Top Feed	7
1/2" Bottom Feed	1
1/2" Feed Through	4
3/4" Top Feed	8
3/4" Bottom Feed	2
3/4" Feed Through	5
1" Top Feed	9
1" Bottom Feed	3
1" Feed Through	6
CLEARANCE HOLE FOR METRIC FITTING	LOGIC CODE
M20 Top Feed	C
M20 Bottom Feed	A
M20 Feed Through	B
2 x M20 Top Feed	F
2 x M20 Bottom Feed	D
M25 Top Feed	J
M25 Bottom Feed	G
M25 Feed Through	H



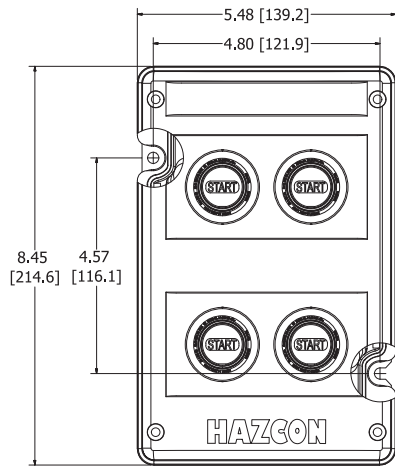
CONTROLS HKH SERIES

SIZE 2A & 2C NON-METALLIC

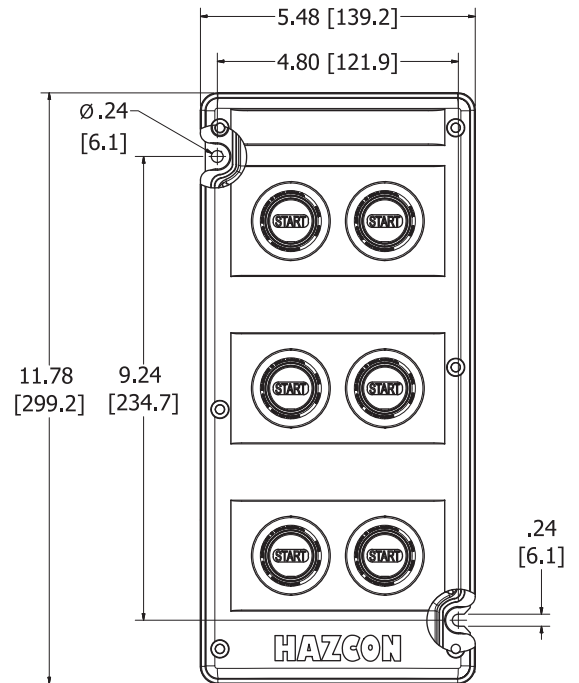
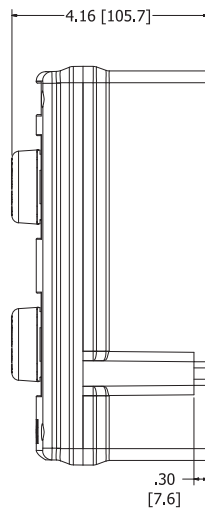


Size 2A and 2C control stations can be factory ordered to include combinations of pilot lights, push buttons, rotary selector switches, ammeters, and terminal blocks. Entry holes can be located on all sides.

Double Push button, HKHDBLPBMMGR, not available on Size 2A - 4 Device or 2C - 6 Device covers



Size 2A



Size 2C
(Depth same as 2A)

CLEARANCE HOLE FOR NPT FITTING	LOGIC CODE
1/2" Top Feed	7
1/2" Bottom Feed	1
1/2" Feed Through	4
3/4" Top Feed	8
3/4" Bottom Feed	2
3/4" Feed Through	5

CLEARANCE HOLE FOR METRIC FITTING	LOGIC CODE
2 x M20 Top Feed	F
2 x M20 Bottom Feed	D
2 x M20 Feed Through	E
2 x M25 Top Feed	M
2 x m25 Bottom Feed	K
2 x M25 Feed Through	L
M32 Top Feed	Q
M32 Bottom Feed	N
M32 Feed Through	P

DRILLED & TAPPED FOR METRIC FITTING	LOGIC CODE
2 x M20 Bottom Feed	T
2 x M25 Bottom Feed	U
M32 Bottom Feed	V



SIZE 1 NON-METALLIC 2 POLE ROCKER SWITCH

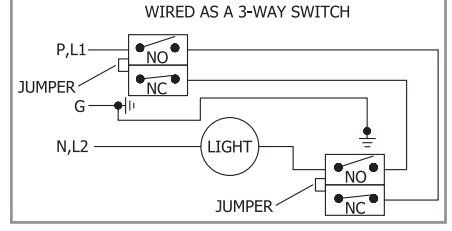


Size 1A

Rocker Switch with Double Pole, Single Throw action
Luminous fluorescent strip supplied for ease of locating.
One entry listed is located at bottom.

CONTACT BLOCK FEATURES:

- **UL ELECTRICAL RATING:** 690Vac, 20A, 50-60Hz, 60Vdc, 5A, 110Vdc, 2A, 255Vdc, 1.5A, 1/2 HP @120Vac, 1 HP@208/240/277Vac, A600/P600- Pilot Duty 350Vac-Tungsten Lamp.
- **WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: #22 to #12 AWG (SOL & STR) and #10 AWG (STR).
- **IEC ELECTRICAL RATINGS:** AC690V 16A AC-12, 50-60 Hz, AC230V 16A AC-15, 50-60Hz, DC60V 5A DC-12, DC125 1A DC-13.
- **WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: 0.5 to 2.5mm (SOL & STR) and 4.0mm² (STR)
- Silver Alloy contacts with Gold Flashing.



① Can be wired as 3 way switch when jumper installed. See instruction sheet supplied with switch enclosure.

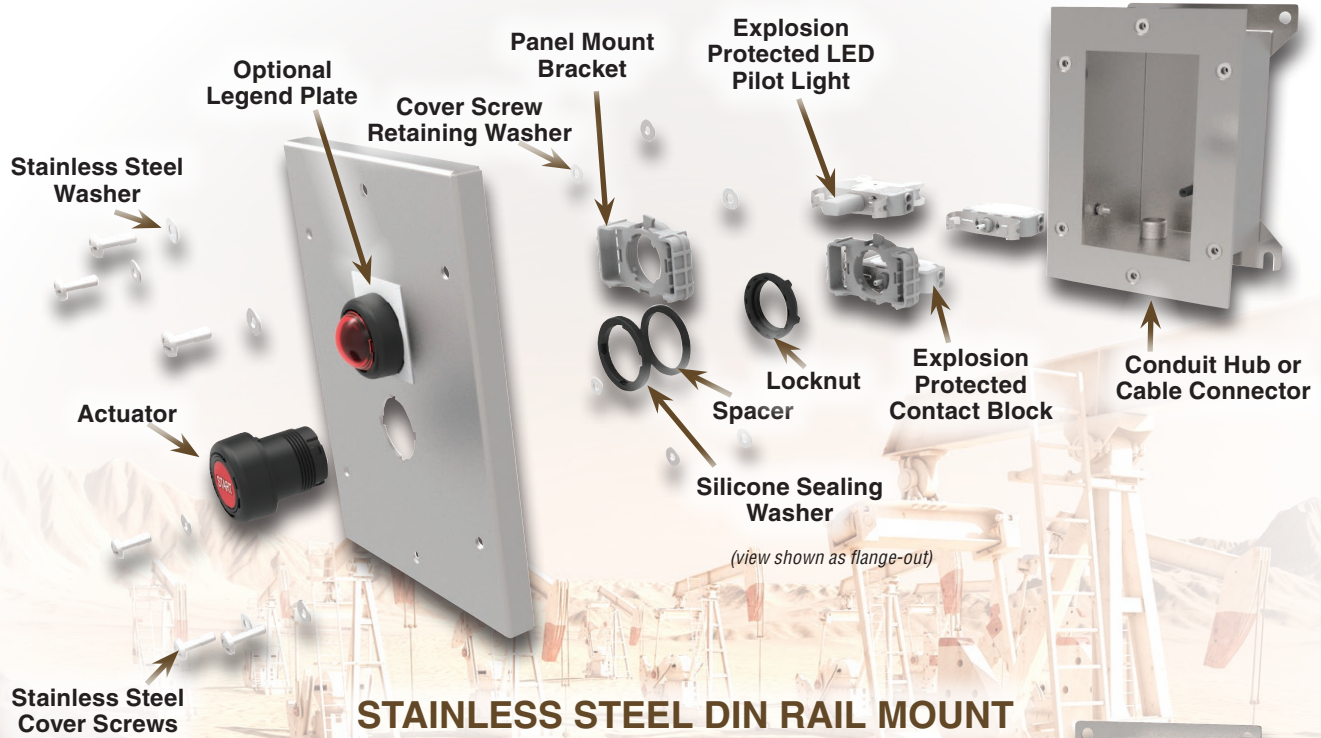
HKH ROCKER SWITCH MAINTAINED IN 2 POSITIONS				
CATALOG NUMBER DIN RAIL MOUNT	ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS
		IEC	NEMA	
HKH1AND2RS4K8	3/4" NPT SS HUB			2 N.O.
HKH1ANDARS4	M20 Clearance hole			
HKH1AND2RS1K8 ①	3/4" NPT SS HUB			1 N.C. / 1 N.O.
HKH1ANDARS1 ①	M20 Clearance hole			
HKH1BND2RS4K8	3/4" NPT SS HUB			2 N.O.
HKH1BNDARS4	M20 Clearance hole			
HKH1BND2RS1K8 ①	3/4" NPT SS HUB			1 N.C. / 1 N.O.
HKH1BNDARS1 ①	M20 Clearance hole			

Available in HKH Size 1c also as 1 or 2 Rocker Switches and 1 Rocker Switch with 1 other actuator top or bottom.

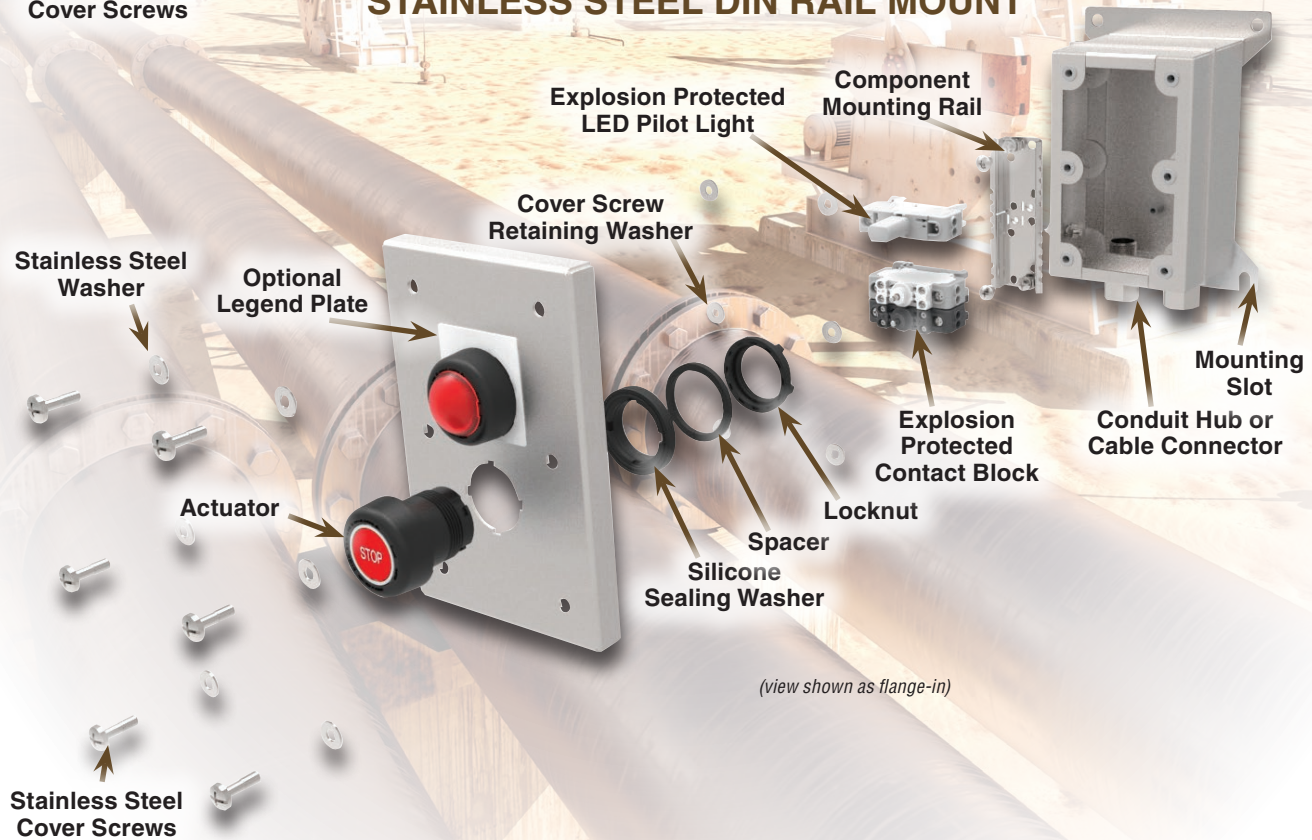


CONTROLS HKH SERIES

STAINLESS STEEL PANEL MOUNT



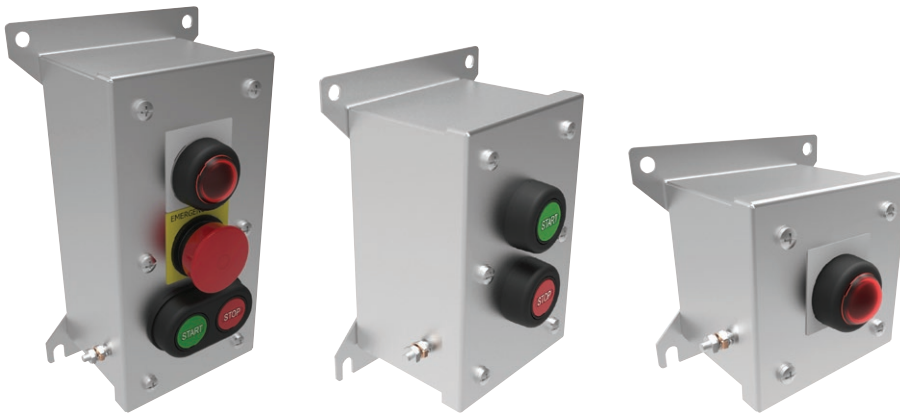
STAINLESS STEEL DIN RAIL MOUNT





STAINLESS STEEL CONFIGURATIONS

HAZCON®



ATEX/IECEX Certified

CE 0518 II 2 G Ex db eb IIC T6...T4 Gb
0518 II 2 D Ex tb IIIC T6...T4 Db
IP66

DEMKO 15 ATEX 1405X

Ex db eb IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db IP66

IECEX UL 15.0054X

Ambient Range: -50°C < Ta < 60°C

cULus Certified

Class I, Zone 1, AEx db eb IIC T6...T4 Gb /

Ex db eb IIC T6...T4 Gb X

Zone 21, AEx tb IIIC T85°C...T135°C Db IP66

/ Ex tb IIIC T85°C...T135°C Db IP66 X

Class I, Division 2, Groups A, B, C, D

Class II, Division 1, Groups E, F, G

(Canada Only)

Class II, Division 2, Groups E, F, G

Class III

UL50, 50E, 508, UL60079-0, -1, -7, -31

Type 3, 4, 4X, 12, 13

Ambient Range: -50°C < Ta < 60°C

Complies with RoHS, WEEE,
ATEX and Low Voltage directives.



STAINLESS ENCL. ONLY
CLASS II, DIV. 1, GRPS. E,F,G



CSA 17.70126964

IEEx 16.0079 INMETRO

FEATURES-SPECIFICATIONS

Features

- Size 1 Control Stations available as 1A, 1B, and 1C as standard catalog number offerings for 1, 2 and 3 device openings and will accept 2-M20 entries in either end. Ammeters available in 1B and 1C. Size 2 Enclosures available as 2A and 2C for 2, 4, and 6 device entries in cover with ability to accept 2-M25 entries in either end.
- Operating Temperature of -50°C to +60°C
- Contacts and Pilot lights can be mounted inside enclosure on Din Rail or in cover to the actuator.
- Accessories available for Lockout/Tag Out functions made in 316 stainless steel.
- Enclosures available in standard Internal flange, and External flange when additional access is required.

Materials

- Enclosure = 316 Stainless Steel
- Hardware = Stainless Steel
- Silicone gasketing on all enclosures and operators throughout.

Electrical Ratings

- Explosion Protected Contact Blocks, available in Normally Open (NO) or Normally Closed (NC) configurations, are rated for up to 690VAC, up to 20A Switching duty, and up to 1HP.
- Explosion Protected Pilot Lights rated for 12-250V AC/DC for UL applications and 12-254 V AC/DC for IEC applications.

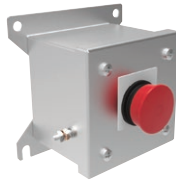


CONTROLS HKH SERIES

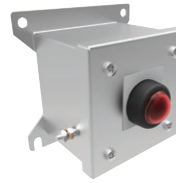
STANDARD SIZE 1A STAINLESS STEEL CONFIGURATIONS



**Momentary
Push Button**



**Momentary & Maintained
Mushroom P.B.**



Pilot Light

The control stations on this page are the most commonly used configurations of pilot lights and push buttons. One entry hole listed is located at bottom.

HKH MOMENTARY SINGLE PUSH BUTTON							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1ASD2P11K8	HKH1ASP2P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	None
HKH1ASDAP11	HKH1ASPAP11	M20 Clearance hole					
supplied with 7 colored and marked discs – see button color							

HKH MOMENTARY SINGLE PUSH BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1ASD2M11BK8 HKH1ASD2M21AK8 HKH1ASD2M310K8	HKH1ASP2M11BK8 HKH1ASP2M21AK8 HKH1ASP2M310K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1ASDAM11B HKH1ASDAM21A HKH1ASDAM310	HKH1ASPAM11B HKH1ASPAM21A HKH1ASPAM310	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH MAINTAINED SINGLE PUSH PULL BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1ASD2M41BK8 HKH1ASD2M51AK8 HKH1ASD2M610K8	HKH1ASP2M41BK8 HKH1ASP2M51AK8 HKH1ASP2M610K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1ASDAM41B HKH1ASDAM51A HKH1ASDAM610	HKH1ASPAM41B HKH1ASPAM51A HKH1ASPAM610	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH SINGLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED		M20 CLEARANCE HOLE SUPPLIED		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1ASD2LRL0K8 HKH1ASD2LGL0K8 HKH1ASD2LAL0K8 HKH1ASD2LCL0K8 HKH1ASD2LBL0K8	HKH1ASP2LRL0K8 HKH1ASP2LGL0K8 HKH1ASP2LAL0K8 HKH1ASP2LCL0K8 HKH1ASP2LBL0K8	HKH1ASDALRLO HKH1ASDALGLO HKH1ASDALALO HKH1ASDALCLO HKH1ASDALBLO	HKH1ASPALRLO HKH1ASPALGLO HKH1ASPALALO HKH1ASPALCLO HKH1ASPALBLO			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red LED Green LED Amber LED Clear LED Blue LED	Blank



STANDARD SIZE 1A STAINLESS STEEL CONFIGURATIONS



**Maintained
Mushroom P.B.
Pull Release**



**Maintained
Mushroom P.B.
Twist Release**



**Double
Momentary
Push Button**

The control stations on this page are the most commonly used configurations of mushroom push buttons and double push buttons. One entry listed is located at bottom.

HKH MAINTAINED MUSHROOM STAY PUT E-STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1ASD2M41EK8 (Pull Release) HKH1ASD2M71EK8 (Twist Release)	HKH1ASP2M41EK8 (Pull Release) HKH1ASP2M71EK8 (Twist Release)	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red	Emergency Stop
HKH1ASDAM41E (Pull Release) HKH1ASDAM71E (Twist Release)	HKH1ASPAM41E (Pull Release) HKH1ASPAM71E (Twist Release)	M20 Clearance hole					

HKH DOUBLE MOMENTARY PUSH BUTTON, 1 N.O. START/1 N.C. STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1ASD2P21K8	HKH1ASP2P21K8	3/4" NPT SS HUB		START STOP 	1 N.O. / 1 N.C.	Green/Start/(I) Red/Stop/(O) Black	—
HKH1ASDAP21	HKH1ASPAP21	M20 Clearance hole					



CONTROLS HKH SERIES

STANDARD SIZE 1A STAINLESS STEEL CONFIGURATIONS



**2 Position
Selector Switch Maint. & Mom.**



**3 Position
Selector Switch Maint. & Mom.**

The control stations on this page are the most commonly used configurations of rotary selector switches. One entry hole listed is located at bottom.

HKH MAINTAINED 2-POSITION SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S11SK8	HKH1ASP2S11SK8	3/4" NPT SS HUB		OFF ON	1 N.C. / 1 N.O.	Off-On
HKH1ASDAS11S	HKH1ASPAS11S	M20 Clearance hole				
HKH 2-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S210K8	HKH1ASP2S210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1ASDAS210	HKH1ASPAS210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S349K8	HKH1ASP2S349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1ASDAS349	HKH1ASPAS349	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S440K8	HKH1ASP2S440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAS440	HKH1ASPAS440	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S540K8	HKH1ASP2S540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAS540	HKH1ASPAS540	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2S640K8	HKH1ASP2S640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAS640	HKH1ASPAS640	M20 Clearance hole				



STANDARD SIZE 1A STAINLESS STEEL CONFIGURATIONS



2 Position
Key Selector SWT Maint. & Mom.



3 Position
Key Selector SWT Maint. & Mom.

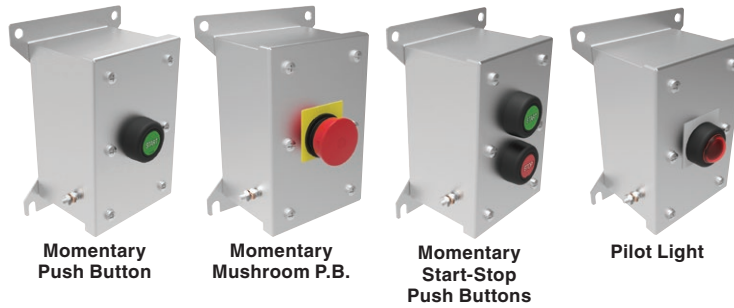
The control stations on this page are the most commonly used configurations of keyed rotary selector switches. One entry hole listed is located at bottom.

HKH MAINTAINED 2-POSITION KEYED SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K11SK8	HKH1ASP2K11SK8	3/4" NPT SS HUB		OFF	1 N.C. / 1 N.O.	Off-On
HKH1ASDAK11S	HKH1ASPAK11S	M20 Clearance hole		ON		
HKH 2-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K210K8	HKH1ASP2K210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1ASDAK210	HKH1ASPAK210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION KEYED SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K349K8	HKH1ASP2K349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1ASDAK349	HKH1ASPAK349	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K440K8	HKH1ASP2K440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAK440	HKH1ASPAK440	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K540K8	HKH1ASP2K540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAK540	HKH1ASPAK540	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1ASD2K640K8	HKH1ASP2K640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1ASDAK640	HKH1ASPAK640	M20 Clearance hole				



CONTROLS HKH SERIES

STANDARD SIZE 1B STAINLESS STEEL CONFIGURATIONS*



Momentary Push Button

Momentary Mushroom P.B.

Momentary Start-Stop Push Buttons

Pilot Light

The control stations on this page are the most commonly used configurations, including combinations of pilot lights, and push buttons. One entry hole listed is located at bottom.

HKH MOMENTARY SINGLE PUSH BUTTON							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BSD2P11K8	HKH1BSP2P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	None
HKH1BSDAP11	HKH1BSPAP11	M20 Clearance hole					
supplied with 7 colored and marked discs – see button color							

HKH MOMENTARY SINGLE PUSH BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BSD2M11BK8 HKH1BSD2M21AK8 HKH1BSD2M31OK8	HKH1BSP2M11BK8 HKH1BSP2M21AK8 HKH1BSP2M31OK8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1BSDAM11B HKH1BSDAM21A HKH1BSDAM31O	HKH1BSPAM11B HKH1BSPAM21A HKH1BSPAM31O	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH DOUBLE MOMENTARY START-STOP PUSH BUTTONS							
CATALOG NUMBER [Ⓢ]		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BSD2P11P11K8	HKH1BEP2P11P11K8	3/4" NPT SS HUB			1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Green, start, (I) Red, stop, (O)	—
HKH1BSDAP11P11	HKH1BEPAP11P11	M20 Clearance hole					

HKH SINGLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED		M20 CLEARANCE HOLE SUPPLIED		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1BSD2LRLOK8 HKH1BSD2LGLOK8 HKH1BSD2LALOK8 HKH1BSD2LCLOK8 HKH1BSD2LBLOK8	HKH1BSP2LRLOK8 HKH1BSP2LGLOK8 HKH1BSP2LALOK8 HKH1BSP2LCLOK8 HKH1BSP2LBLOK8	HKH1BSDALRLO HKH1BSDALGLO HKH1BSDALALO HKH1BSDALCLO HKH1BSDALBLO	HKH1BSPALRLO HKH1BSPALGLO HKH1BSPALALO HKH1BSPALCLO HKH1BSPALBLO			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red LED Green LED Amber LED Clear LED Blue LED	Blank

[Ⓢ] Din Rail mount assemblies supplied in Flange In type enclosures. Panel mount assemblies supplied with Flange Out enclosures.



STANDARD SIZE 1B STAINLESS STEEL CONFIGURATIONS*



Maintained
Mushroom P.B.
Pull Release

Maintained
Mushroom P.B.
Twist Release

Double
Pilot Light

Pilot Light &
Double Momentary
Push Button

The control stations on this page are the most commonly used configurations, including combinations of pilot lights, and push buttons. One entry listed is located at bottom.

HKH MAINTAINED MUSHROOM STAY PUT E-STOP							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BSD2M41EK8 (Pull Release) HKH1BSD2M71EK8 (Twist Release)	HKH1BSP2M41EK8 (Pull Release) HKH1BSP2M71EK8 (Twist Release)	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red	Emergency Stop
HKH1BSDAM41E (Pull Release) HKH1BSDAM71E (Twist Release)	HKH1BSPAM41E (Pull Release) HKH1BSPAM71E (Twist Release)	M20 Clearance hole					

HKH MAINTAINED SINGLE PUSH PULL BUTTON - MUSHROOM							
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA			
HKH1BSD2M41BK8 HKH1BSD2M51AK8 HKH1BSD2M61OK8	HKH1BSP2M41BK8 HKH1BSP2M51AK8 HKH1BSP2M61OK8	3/4" NPT SS HUB			1 N.O. / 1 N.C.	Red Green Black	Stop Start Blank
HKH1BSDAM41B HKH1BSDAM51A HKH1BSDAM610	HKH1BSPAM41B HKH1BSPAM51A HKH1BSPAM610	M20 Clearance hole				Red Green Black	Stop Start Blank

HKH DOUBLE PILOT LIGHT								
3/4" NPT SS HUB SUPPLIED ①		M20 CLEARANCE HOLE SUPPLIED ①		CONTACT ARRANGEMENT		LAMP VOLTAGE	COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT	DIN RAIL MOUNT	PANEL MOUNT	IEC	NEMA			
HKH1BSD2LRL0LGL0K8 HKH1BSD2LRL0LRL0K8 HKH1BSD2LGL0LGL0K8	HKH1BEP2LRL0LGL0K8 HKH1BEP2LRL0LRL0K8 HKH1BEP2LGL0LGL0K8	HKH1BSDALRL0LGL0 HKH1BSDALRL0LRL0 HKH1BSDALGL0LGL0	HKH1BEPALRL0LGL0 HKH1BEPALRL0LRL0 HKH1BEPALGL0LGL0			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red/Green Red/Red Green/Green	Blank

HKH DOUBLE MOMENTARY PUSH BUTTON & PILOT LIGHT								
CATALOG NUMBER ①		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKH1BSD2LRL0P21K8	HKH1BEP2LRL0P21K8	3/4" NPT SS HUB			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	1 N.O. 1 N.C.	Green, Start, (I)	—
HKH1BSDALRL0P21	HKH1BEPALRL0P21	M20 Clearance hole					START STOP	Red, Stop, (O)

① Din Rail mount assemblies supplied in Flange In type enclosures. Panel mount assemblies supplied with Flange Out enclosures.



CONTROLS HKH SERIES

STANDARD SIZE 1B STAINLESS STEEL CONFIGURATIONS



**2 Position
Selector Switch
Maint. & Mom.**



**3 Position
Selector Switch
Maint. & Mom.**

The control stations on this page are the most commonly used configurations of rotary selector switches. One entry listed is located at bottom.

HKH MAINTAINED 2-POSITION SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S11SK8	HKH1BSP2S11SK8	3/4" NPT SS HUB		OFF ON	1 N.C. / 1 N.O.	Off-On
HKH1BSDAS11S	HKH1BSPAS11S	M20 Clearance hole				
HKH 2-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S210K8	HKH1BSP2S210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1BSDAS210	HKH1BSPAS210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S349K8	HKH1BSP2S349K8	3/4" NPT SS HUB		HAND OFF AUTO	2 N.O.	Hand-Off-Auto
HKH1BSDAS349	HKH1BSPAS349	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S440K8	HKH1BSP2S440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAS440	HKH1BSPAS440	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S540K8	HKH1BSP2S540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAS540	HKH1BSPAS540	M20 Clearance hole				
HKH 3-POSITION SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2S640K8	HKH1BSP2S640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAS640	HKH1BSPAS640	M20 Clearance hole				



STANDARD SIZE 1B STAINLESS STEEL CONFIGURATIONS



2 Position
Key Selector Swt
Maint. & Mom.



3 Position
Key Selector Swt
Maint. & Mom.

The control stations on this page are the most commonly used configurations of keyed rotary selector switches. One entry listed is located at bottom.

HKH MAINTAINED 2-POSITION KEYED SELECTOR SWITCH						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K11SK8	HKH1BSP2K11SK8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Off-On
HKH1BSDAK11S	HKH1BSPAK11S	M20 Clearance hole				
HKH 2-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K210K8	HKH1BSP2K210K8	3/4" NPT SS HUB			1 N.C. / 1 N.O.	Blank
HKH1BSDAK210	HKH1BSPAK210	M20 Clearance hole				
HKH MAINTAINED 3-POSITION KEYED SELECTOR SWITCH INDEPENDENT CAM						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K349K8	HKH1BSP2K349K8	3/4" NPT SS HUB			2 N.O.	Hand-Off-Auto
HKH1BSDAK349	HKH1BSPAK349	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT & RIGHT, MAINT. CENTER						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K440K8	HKH1BSP2K440K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAK440	HKH1BSPAK440	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. RIGHT, MAINT. CENTER & LEFT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K540K8	HKH1BSP2K540K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAK540	HKH1BSPAK540	M20 Clearance hole				
HKH 3-POSITION KEYED SELECTOR SWITCH SPRING RETURN, MOM. LEFT, MAINT. CENTER & RIGHT						
CATALOG NUMBER		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA		
HKH1BSD2K640K8	HKH1BSP2K640K8	3/4" NPT SS HUB			2 N.O.	Blank
HKH1BSDAK640	HKH1BSPAK640	M20 Clearance hole				



CONTROLS HKH SERIES

STANDARD SIZE 1C STAINLESS STEEL CONFIGURATIONS



The control stations on this page are the most commonly used configurations, including combinations of pilot lights, push buttons, rotary selector switches, and ammeters.

One entry hole listed is located at bottom.

HKH RED PILOT LIGHT & TWO MOMENTARY PUSH BUTTONS								
CATALOG NUMBER ^①		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000021	HKHMOD000022	3/4" NPT SS HUB			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	1 N.C.	Red Stop (I)	Blank
HKHMOD000023	HKHMOD000024	M20 Clearance hole						

HKH THREE MOMENTARY PUSH BUTTONS								
CATALOG NUMBER ^①		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING	
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000025	HKHMOD000026	3/4" NPT SS HUB			1 N.O. / 1 N.C. 1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Green: Start/(I)/Blank Red: Stop/(O)/Blank Black: Blank	Blank	
HKHMOD000027	HKHMOD000028	M20 Clearance hole						

HKH RED PILOT LIGHT, MUSHROOM MAINTAINED P.B., DOUBLE MOMENTARY P.B.								
CATALOG NUMBER ^①		ENTRY SIZE	CONTACT ARRANGEMENT		LAMP VOLTAGE	BUTTON COLOR	LEGEND PLATE MARKING	
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000029 (Pull Release)	HKHMOD000030 (Pull Release)	3/4" NPT SS HUB			12V-254V AC/DC IEC Ex 12V-250V AC/DC UL	Red Green: Start/(I)/Blank Red: Stop/(O)/Blank	Blank Emergency Stop	
HKHMOD000031 (Twist Release)	HKHMOD000032 (Twist Release)							
HKHMOD000033 (Pull Release)	HKHMOD000034 (Pull Release)	M20 Clearance hole			1 N.O. / 1 N.C. 1 N.O. / 1 N.C.	Red: Stop/(O)/Blank		
HKHMOD000035 (Twist Release)	HKHMOD000036 (Twist Release)							

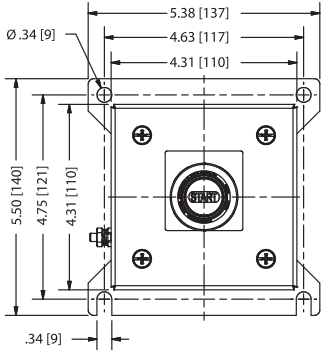
HKH 72MM AMMETER & 2 POSITION MAINT. SELECTOR SWITCH								
CATALOG NUMBER ^{①②}		ENTRY SIZE	CONTACT ARRANGEMENT		CONTACT BLOCKS	BUTTON COLOR	LEGEND PLATE MARKING	
DIN RAIL MOUNT	PANEL MOUNT		IEC	NEMA				
HKHMOD000037	HKHMOD000038	3/4" NPT SS HUB			1 N.C. / 1 N.O.	—	Blank	
HKHMOD000039	HKHMOD000040	M20 Clearance hole						

^① Din Rail mount assemblies supplied in Flange In type enclosures. Panel mount assemblies supplied with Flange Out enclosures.

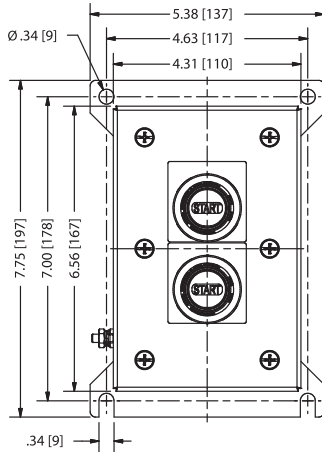
^② IECEx/ATEX Only. Supplied with 72mm 1A Ammeter scale 0-5A and 25A O/L scale. For use with Current Transformer. Consult Factory for other scale ranges and for Voltmeter options.



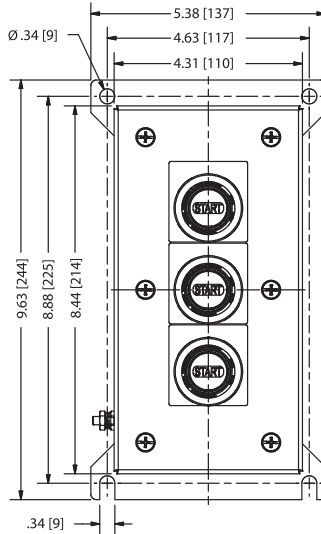
DIMENSIONAL DATA - STAINLESS STEEL SIZE 1 FLANGE IN



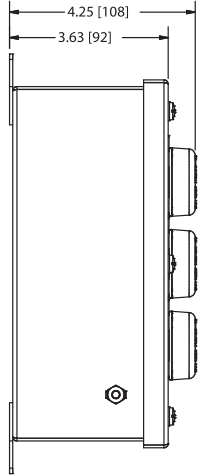
Flange In Size 1A



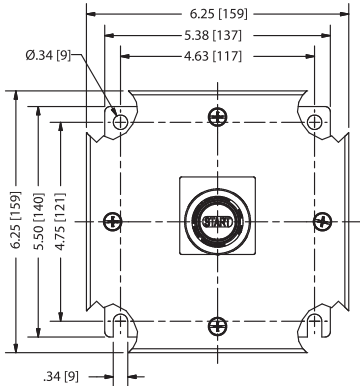
Flange In Size 1B



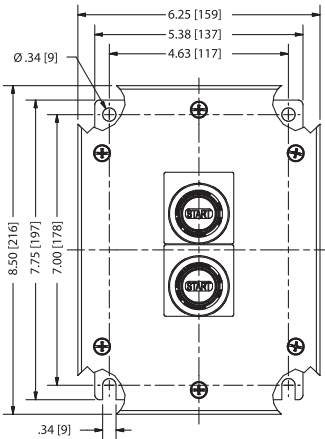
Flange In Size 1C



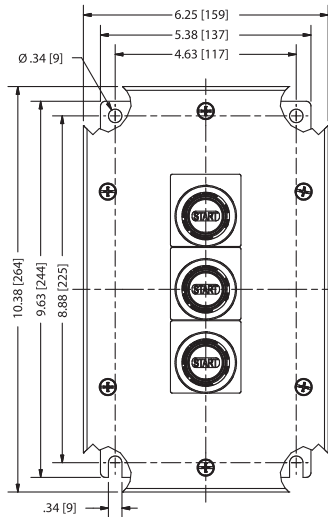
DIMENSIONAL DATA - STAINLESS STEEL SIZE 1 FLANGE OUT



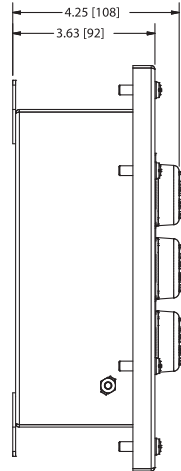
Flange Out Size 1A



Flange Out Size 1B



Flange Out Size 1C



CLEARANCE HOLE FOR NPT FITTING	LOGIC CODE
1/2" Top Feed	7
1/2" Bottom Feed	1
1/2" Feed Through	4
3/4" Top Feed	8
3/4" Bottom Feed	2
3/4" Feed Through	5
1" Top Feed	9
1" Bottom Feed	3
1" Feed Through	6

CLEARANCE HOLE FOR METRIC FITTING	LOGIC CODE
M20 Top Feed	C
M20 Bottom Feed	A
M20 Feed Through	B
2 x M20 Top Feed	F
2 x M20 Bottom Feed	D
M25 Top Feed	J
M25 Bottom Feed	G
M25 Feed Through	H

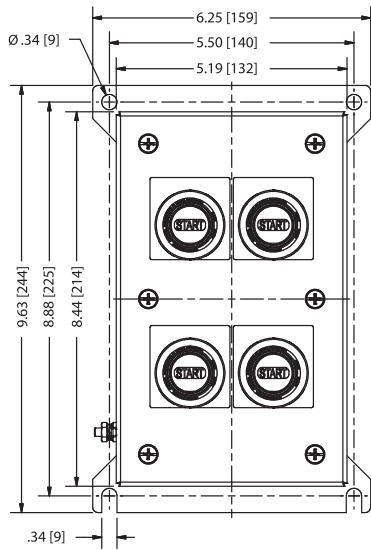


CONTROLS HKH SERIES

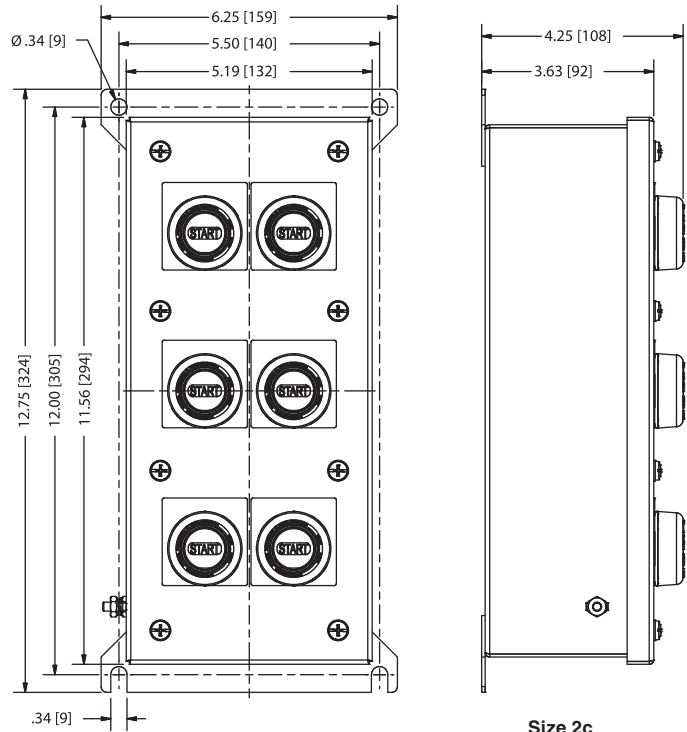
SIZE 2A & 2C STAINLESS STEEL FLANGE IN



Size 2A and 2C control stations can be factory ordered to include combinations of pilot lights, push buttons, rotary selector switches, ammeters, and terminal blocks. Entry holes can be located on all sides.



Size 2a



Size 2c

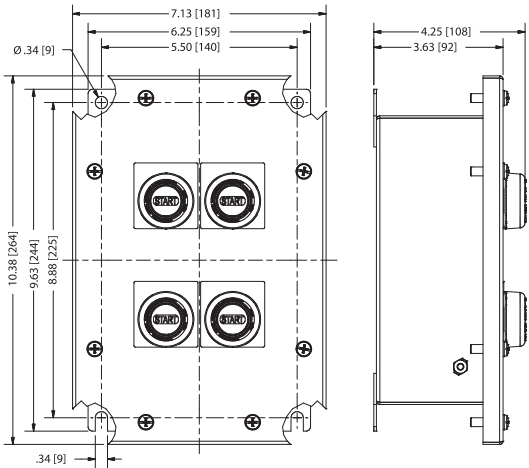
CLEARANCE HOLE FOR NPT FITTING	LOGIC CODE	CLEARANCE HOLE FOR METRIC FITTING	LOGIC CODE
1/2" Top Feed	7	M20 Top Feed	C
1/2" Bottom Feed	1	M20 Bottom Feed	A
1/2" Feed Through	4	M20 Feed Through	B
3/4" Top Feed	8	2 x M20 Top Feed	F
3/4" Bottom Feed	2	2 x M20 Bottom Feed	D
3/4" Feed Through	5	M25 Top Feed	J
1" Top feed	9	M25 Bottom Feed	G
1" bottom feed	3	M25 Feed Through	H
1" Feed Through	6	2 x m25 bottom feed	K



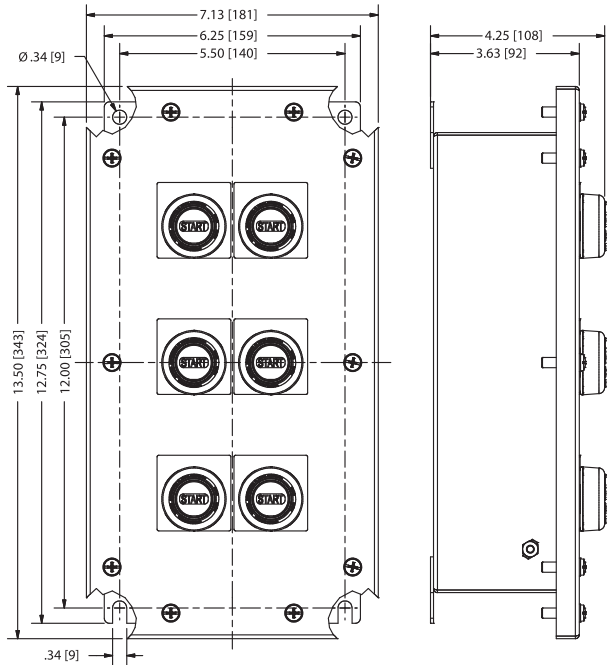
SIZE 2A & 2C STAINLESS STEEL FLANGE OUT



Size 2A and 2C control stations can be factory ordered to include combinations of pilot lights, push buttons, rotary selector switches, ammeters, and terminal blocks. Entry holes can be located on all sides.



Size 2a



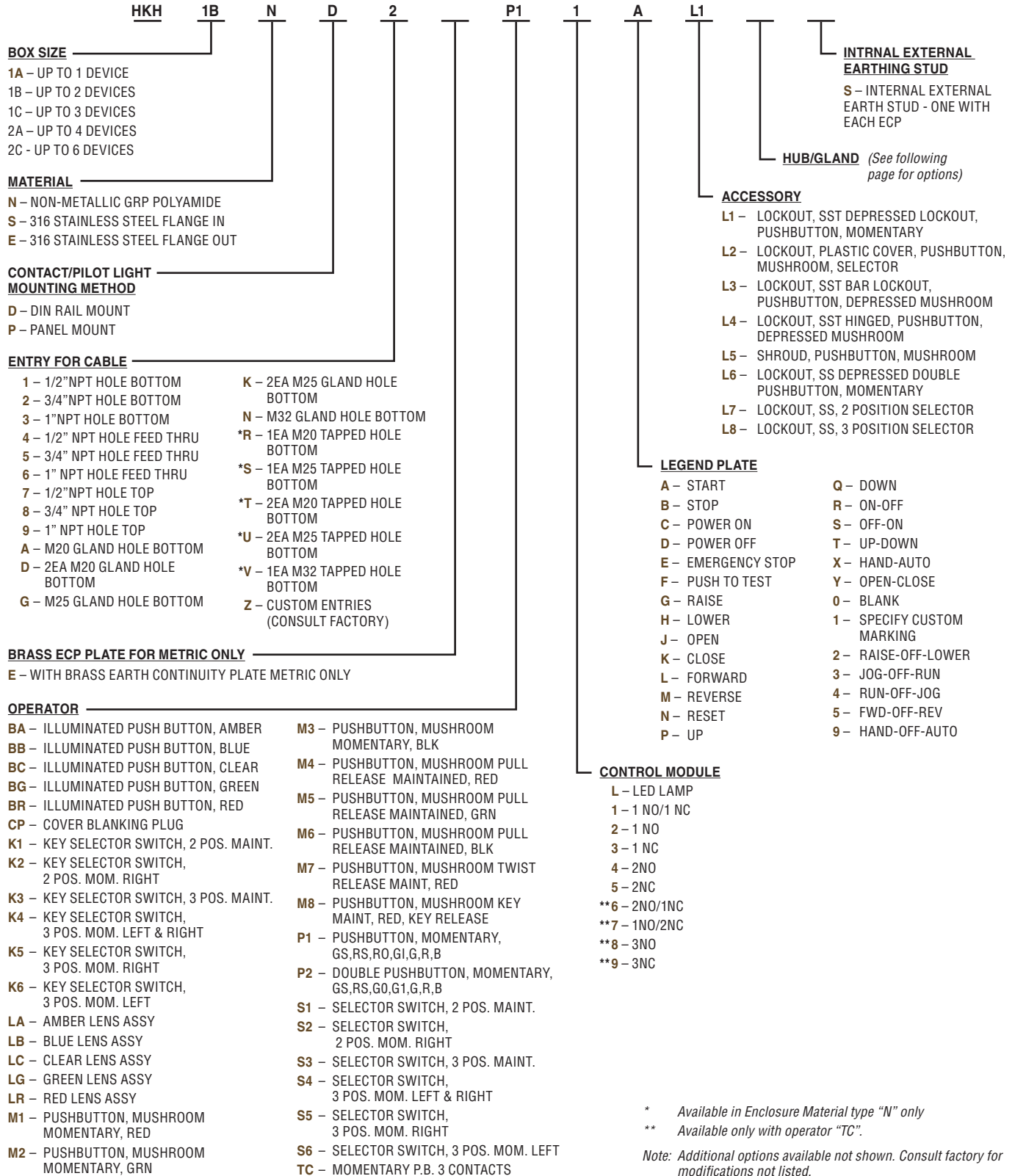
Size 2c

CLEARANCE HOLE FOR NPT FITTING	LOGIC CODE	CLEARANCE HOLE FOR METRIC FITTING	LOGIC CODE
1/2" Top Feed	7	2 x M20 Top Feed	F
1/2" Bottom Feed	1	2 x M20 Bottom Feed	D
1/2" Feed Through	4	2 x M20 Feed Through	E
3/4" Top Feed	8	2 x M25 Top Feed	M
3/4" Bottom Feed	2	2 x m25 bottom feed	K
3/4" Feed Through	5	2 x M25 Feed Through	L
1" Top feed	9	M32 Top Feed	Q
1" bottom feed	3	M32 Bottom Feed	N
1" Feed Through	6	M32 Feed through	P



CONTROLS HKH SERIES

CATALOG LOGIC





HUBS / CABLE GLANDS



**FEATURES-
SPECIFICATIONS**
HAZCON®

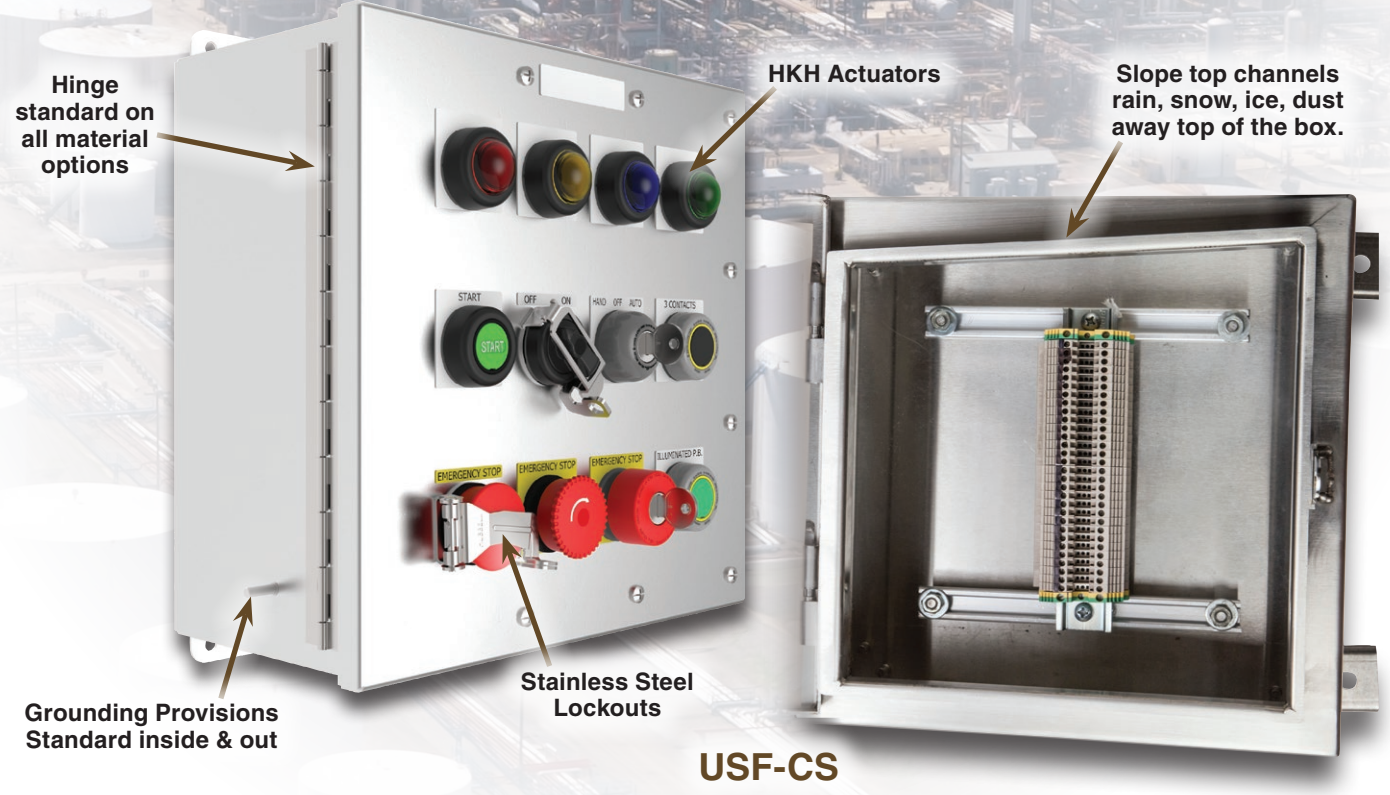
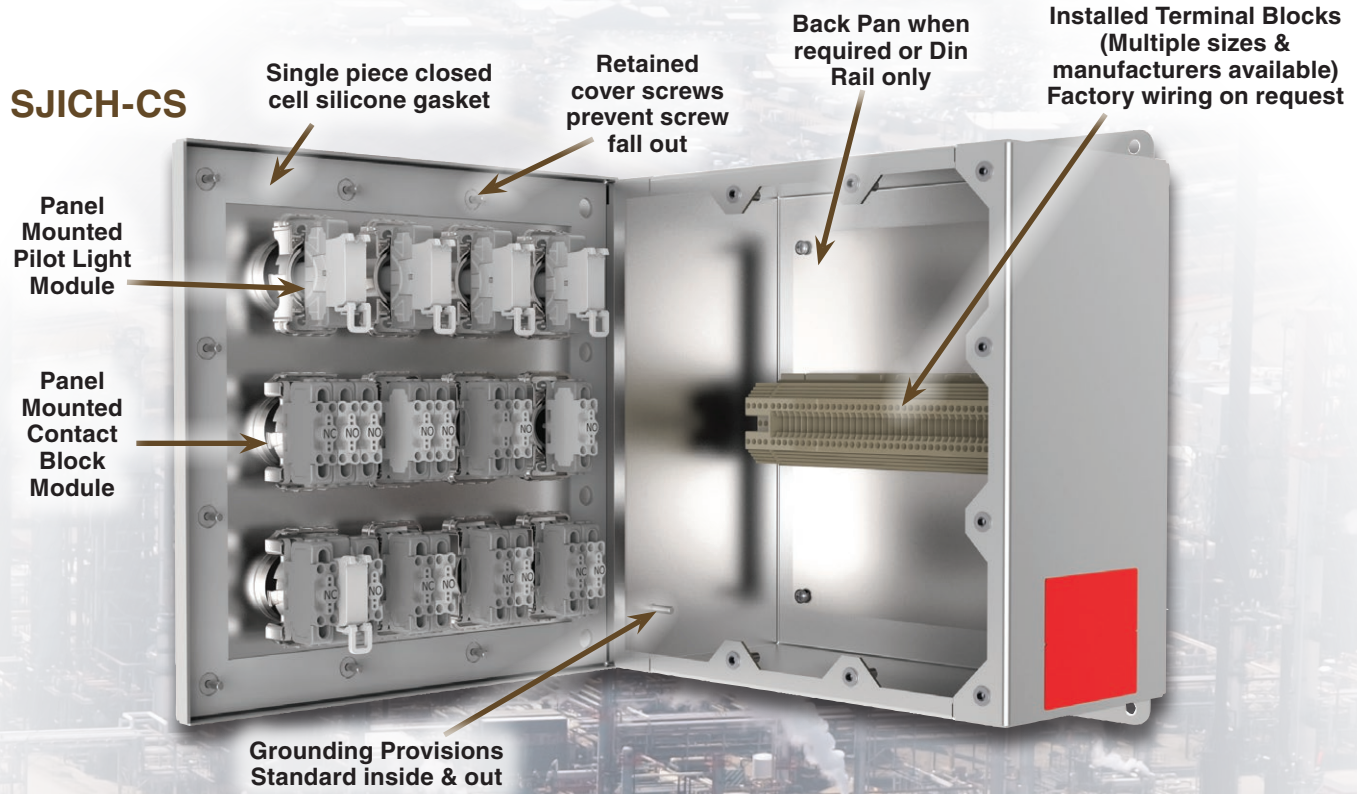
HUBS/GLANDS	
CATALOG LOGIC NUMBER	DESCRIPTION
H1	421S Single Comp. Brass Gland OS-M20
H2	421 Single Comp. Brass Gland O-M20
H3	421N Single Comp. Brass Gland A-M20
H4	421N Single Comp. Brass Gland B-M25
H5	421N Single Comp. Brass Gland OS-M20 NAL Nickel plate
H6	421N Single Comp. Brass Gland O-M20 NAL Nickel plate
H7	421N Single Comp. Brass Gland A-M20 NAL Nickel plate
H8	421N Single Comp. Brass Gland B-M25 NAL Nickel plate
H9	421N Single Comp. Brass Gland C-M32
HA	421N Single Comp. SS Gland OS-M20
HB	421N Single Comp. SS Gland O-M20
HC	421N Single Comp. SS Gland A-M20
HD	421N Single Comp. SS Gland B-M25
HE	421N Single Comp. Brass Gland C-M32 NAL Nickel plate
HF	421N Single Comp. SS Gland C-M32
J1	453R Single Comp. Brass Gland OS-M20
J2	453R Single Comp. Brass Gland O-M20
J3	453R Single Comp. Brass Gland A-M20
J4	453R Single Comp. Brass Gland B-M25
J5	453R Single Comp. Brass Gland OS-M20 NAL Nickel plate
J6	453R Single Comp. Brass Gland O-M20 NAL Nickel plate
J7	453R Single Comp. Brass Gland A-M20 NAL Nickel plate
J8	453R Single Comp. Brass Gland B-M25 NAL Nickel plate
J9	453R Single Comp. Brass Gland C-M32
JA	453R Single Comp. SS Gland OS-M20
JB	453R Single Comp. SS Gland O-M20
JC	453R Single Comp. SS Gland A-M20
JD	453R Single Comp. SS Gland B-M25
JE	453R Single Comp. Brass Gland C-M32 NAL Nickel plate
JF	453R Single Comp. SS Gland C-M32
K1	K1 MC1C Aluminum Metal Clad Connector 1/2" Ø .60 - .82 in
K2	K2 MC2 Aluminum Metal Clad Connector 3/4" Ø .73 - 1.03 in
K3	K3 MC3 Aluminum Metal Clad Connector 1" Ø .97 - 1.31 in
K4	WH-1G Zinc 1/2" HUB
K5	WH-2G Zinc 3/4" HUB
K6	WH-3G Zinc 1" HUB
K7	WH-SS1G Stainless Steel 1/2" HUB
K8	WH-2SSG Stainless Steel 3/4" HUB
K9	WH-3SSG Stainless Steel 1" HUB
KA	WH-1AG Alum. 1/2"
KB	WH-2AG Alum. 3/4"
KC	WH-3AG Alum. 1" HUB
KD	NMHG1EX PVC Coated 1/2" HUB
KE	NMHG2EX PVC Coated 3/4" HUB
KF	NMHG3EX PVC Coated 1" HUB



CONTROLS

USF-CS / SJICH-CS SERIES

SJICH-CS





CONTROL PANELS

HAZCON[®]



Class 1, Zone 1, AEx db eb IIC *T6...T4 Gb
 Ex de IIC *T6...T4 Gb, Zone 21
 AEx tb IIIC *T80°C...T100°C Db IP66
 Ex tb IIIC *T80°C...T100°C Db IP66
 Class I, Div. 2, Groups A, B, C, D, *T6...T4
 Class II, Groups E, F, G, Class III
 Class III, Encl Type 3, 4, 4X

CSA 15.70013827

Ex db eb IIC *T6...T4 Gb
 Ex tb IIIC T80°C...T100°C Db IP66
 IECEx SIR 16.0090

0539 II 2GD

*Custom Control Solutions
 designed to your specific needs*

FEATURES-SPECIFICATIONS

Features

- Operating Temperature of -50°C to +60°C
- Explosion Protected Contact Blocks and LED Pilot Light Modules
- Wet Locations requiring Type 4x & IP66 Ingress Protection
- Hinge standard on all enclosure types and materials.

Materials

- 316/316L, 304 Stainless Steel & Painted Carbon Steel Control Stations

Electrical Ratings

- Contact Blocks = 690VAC N.O. & N.C., 20A, with HP Ratings up to 1HP
- LED Pilot Light Modules = 12-254 VAC/DC

Momentary Push Buttons	Illuminated Momentary Push Buttons LED	2 & 3 Position Rotary Switch Maintained & Momentary	Emergency Stop Red Mushroom Push Buttons Key, Pull, & Twist Release, Momentary Mushroom P.B. in Red, Green and Black Protective Shrouds available	2 & 3 Position Keyed Rotary Switch Maintained & Momentary	Pilot Light Assembly	Double Momentary Push Button



CONTROLS

USF-CS / SJICH-CS SERIES

CUSTOM BUILT ASSEMBLIES



Custom Control Stations Available in a variety of Sizes

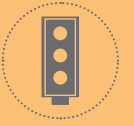
- Enclosure sizes from 8" x 6" x 6" (203mm x 152mm x 152mm) up to 36" x 24" x 8" (915mm x 610mm x 203mm)
- Materials: 316/316L, 304 Stainless Steel & Painted Carbon Steel Control Stations
- Operating Temperature of -50°C to +60°C
- Wet Locations requiring Type 4X & IP66 Ingress Protection
- Indoors or Outdoors in Class 1 Division 2 & Zone 1 Harsh and Hazardous Locations

ITEM DESCRIPTION	
USFC-CS121206MODXXXXXX	USF Carbon Steel Painted 12"x12"x6" w/ no Gland Plates and MODified per Customer Actuator & Terminal Block requirements
SJICH6-CS101006GP1000MODXXXXXX	SJIC Hinged Stainless Steel 316/316L 10"x10"x6" w/ Gland Plate at Bottom and MODified per Customer Actuator & Terminal Block requirements

Notes – Enclosure can be supplied with cable entries in sidewalls or removable Gland Plates for field drilling. Enclosures can also be supplied with terminal blocks and factory wired on request.

USF-CS CATALOG #	ENCLOSURE SIZE	ACTUATOR MAXIMUM	SJICH-CS CATALOG #	ENCLOSURE SIZE	ACTUATOR MAXIMUM
USF-CS-121206	12" x 12" x 6" (305) x (305) x (152)	8 Devices 2 Rows	SJICH-CS-080606	8" x 6" x 6" (203) x (152) x (152)	3 Devices 2 Rows
USF-CS-161206 USF-CS-161208	16" x 12" x 6"/8" (407) x (305) x (152/203)	15 Devices 4 Rows	SJICH-CS-080806	8" x 8" x 6" (203) x (203) x (152)	4 Devices 2 Rows
USF-CS-161606 USF-CS-161608	16" x 16" x 6"/8" (407) x (407) x (152/203)	23 Devices 4 Rows	SJICH-CS-100806	10" x 8" x 6" (254) x (203) x (152)	6 Devices 2 Rows
USF-CS-201606 USF-CS-201608	20" x 16" x 6"/8" (508) x (407) x (152/203)	29 Devices 5 Rows	SJICH-CS-101006	10" x 10" x 6" (254) x (254) x (152)	8 Devices 2 Rows
USF-CS-202006 USF-CS-202008	20" x 20" x 6"/8" (508) x (508) x (152/203)	39 Devices 5 Rows	SJICH-CS-121006	12" x 10" x 6" (305) x (254) x (152)	12 Devices 3 Rows
USF-CS-241606 USF-CS-241608	24" x 16" x 6"/8" (610) x (407) x (152/203)	35 Devices 6 Rows	SJICH-CS-121206	12" x 12" x 6" (305) x (305) x (152)	15 Devices 3 Rows
USF-CS-242006 USF-CS-242008	24" x 20" x 6"/8" (610) x (508) x (152/203)	47 Devices 6 Rows	SJICH-CS-141206	14" x 12" x 6" (356) x (305) x (152)	15 Devices 3 Rows
USF-CS-242406 USF-CS-242408	24" x 24" x 6"/8" (610) x (610) x (152/203)	50 Devices 5 Rows	SJICH-CS-161406	16" x 14" x 6" (407) x (356) x (152)	24 Devices 4 Rows
USF-CS-302008	30" x 20" x 8" (762) x (508) x (203)	56 Devices 7 Rows			
USF-CS-302408	30" x 24" x 8" (762) x (610) x (203)	70 Devices 7 Rows			
USF-CS-303008	30" x 30" x 8" (762) x (762) x (203)	84 Devices 7 Rows			
USF-CS-362408	36" x 24" x 8" (915) x (610) x (203)	90 Devices 9 Rows			

USF-CS / SJICH-CS SERIES



CUSTOM BUILT ASSEMBLIES

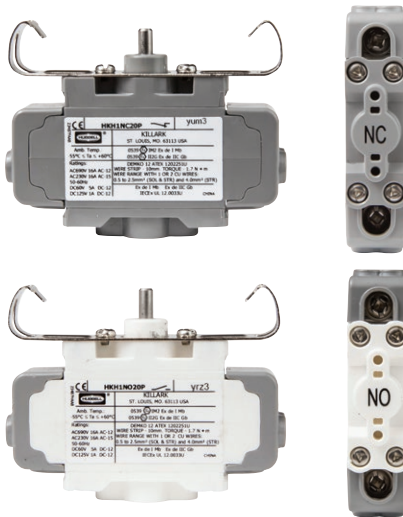


Ammeters and Voltmeters can be installed for use in IECEx/ATEX areas of classification ONLY.

Not certified for use in North America.

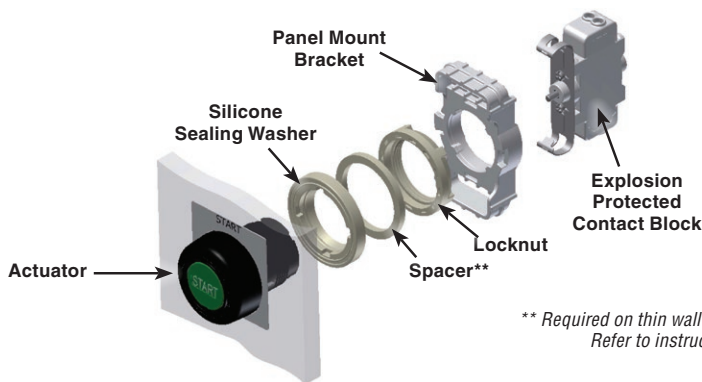
72mm, 1A Ammeters with scales ranging from 0-1 to 0-600 with a 5x Overload Scale for use with Current Transformers or Direct Measure.

Voltmeters with scales of 0-25 to 0-500V.



Contact Blocks supplied are Panel Mounted to a bracket that locks into place on the actuator housing. Offered in Normally Open and Normally Closed these Patented contact blocks are made with Silver contact material and gold plated for low voltage applications and corrosion resistance.

- **UL ELECTRICAL RATING:** 690Vac, 20A, 50-60Hz, 60Vdc, 5A, 110Vdc, 2A, 255Vdc, 1.5A, 1/2 HP @120Vac, 1 HP@208/240/277Vac, A600/P600- Pilot Duty 350Vac- Tungsten Lamp.
- **WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: #22 to #12 AWG (SOL & STR) and #10 AWG (STR).
- **IEC ELECTRICAL RATINGS:** AC690V 16A AC-12, 50-60 Hz, AC230V 16A AC-15, 50-60Hz, DC60V 5A DC-12, DC125 1A DC-12.
- **WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: 0.5 to 2.5mm (SOL & STR) and 4.0mm² (STR)



** Required on thin wall Panel only < .16" thick.
Refer to instruction sheet for actuator.



Pilot Light Applications for US/CAN:

Pilot Light shall be installed in a Class I, Zone 1, AEx e IIC/Ex e IIC increased safety enclosure with a minimum IP54 rating or a Class I, Zone I, AEx d IIC/Zone 21, AEx tb IIIC/Ex d IIC/Ex tb IIIC flameproof/dust enclosure with a minimum IP64 rating, where the suitability is determined in the end application. Electrical Rating: 12-250Vac/Vdc, 50-60 Hz, 0.6 WATTS.

Pilot Light Applications for ATEX/IECEx:

Pilot Light shall be installed in a Group I and/or Group II, 'Ex e' increased safety enclosure with a minimum IP54 rating or an 'Ex d/tb' flameproof/dust enclosure with a minimum IP64 rating, where the suitability is determined in the end application. Electrical Rating: 12-254 Vac/Vdc, 50-60 Hz, 0.6 WATTS.

Wire Allowances:

WIRE RANGE with 1 or 2 WIRES: #22 to #12 AWG (SOL & STR) and #10 AWG (STR) 0.5 to 2.5mm (SOL & STR) and 4.0mm² (STR)



ENCLOSURE BASIC CATALOG NUMBER LOGIC

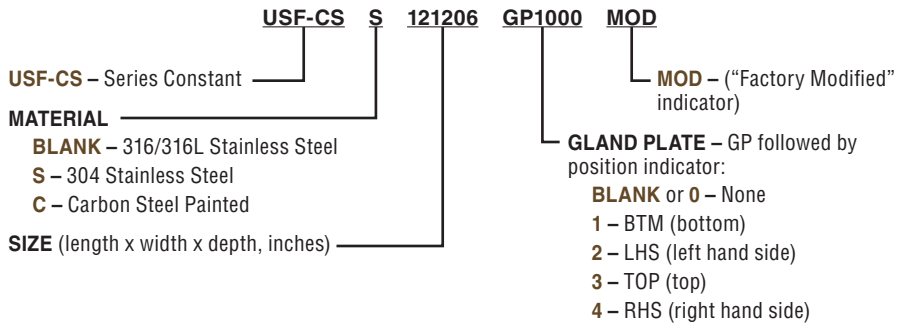
Control Station details to be supplied for devices, cable/conduit entries, terminal block requirements, etc.



USF-CS Series

USF-CS Enclosures Features

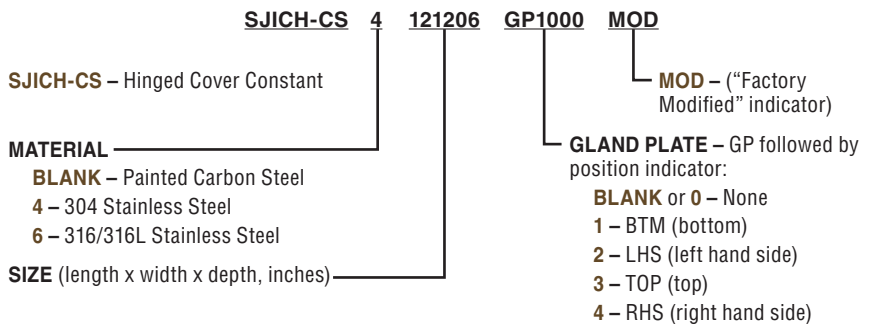
- External slope top flange directs water, melting ice & snow and dust build up away from the opening side of the door.
- Continuous robot welded seams for a hose down tight seal.
- Concealed hinges with removable hinge pins.
- Ground/earthing studs in both cover and through wall of the box.
- Quarter turn 316 stainless steel latch
- One piece high temperature closed cell silicone gasket. With superior recovery and re-sealing properties.
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings.
- Bi-directional removal mounting lugs for the widest flexibility during installations.
- Openings for glands or conduits factory or field installed—option for gland plates.

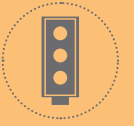


SJICH-CS Series

SJICH-CS Enclosures Features


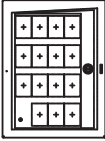
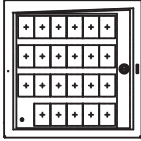
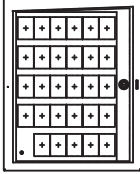
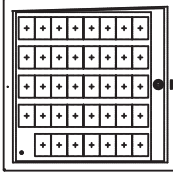
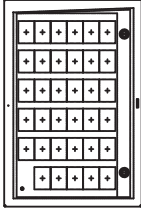
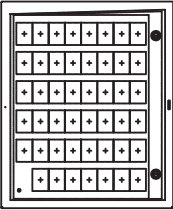
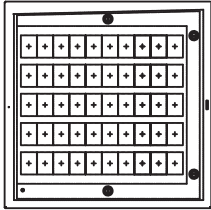
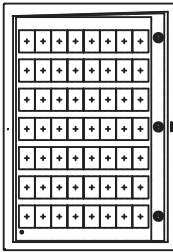
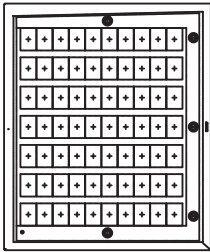
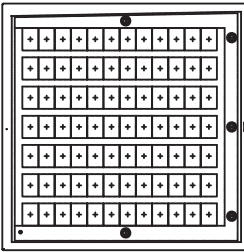
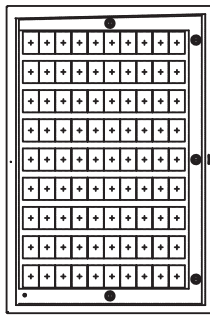
- Screw covers 316 stainless steel
- Continuous robot welded seams for a hose down tight seal.
- Ground/earthing studs in both cover and through wall of the box.
- One piece high temperature closed cell silicone gasket. With superior recovery and re-sealing properties.
- Sturdy 14 gauge box construction helps prevent bending or permanent deflection of the walls when field installing openings.
- Welded one piece mounting flanges top and bottom for strength.
- Openings for glands or conduit



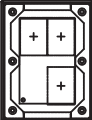
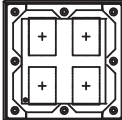
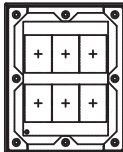
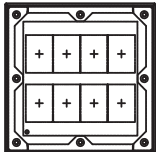
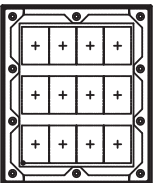
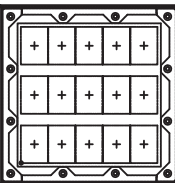
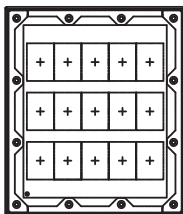
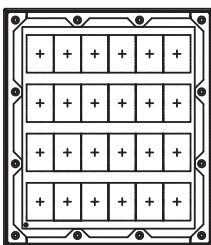


STANDARD OPERATOR LAYOUTS


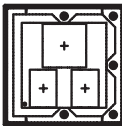
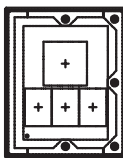
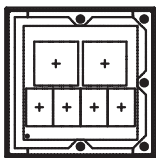
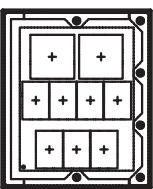
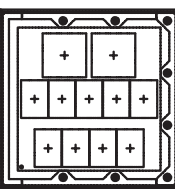
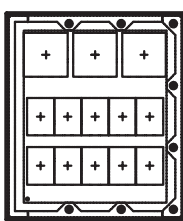
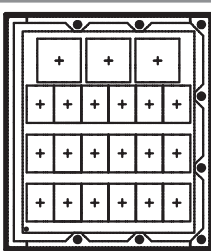
USF-CS STANDARD LAYOUT OPERATOR QUANTITIES

					
USF1212 (8 DEV.)	USF1612 (15 DEV.)	USF1616 (23 DEV.)	USF2016 (29 DEV.)	USF2020 (39 DEV.)	USF2416 (35 DEV.)
					
USF2420 (47 DEV.)	USF2424 (50 DEV.)	USF3020 (56 DEV.)	USF3024 (70 DEV.)	USF3030 (84 DEV.)	USF3624 (90 DEV.)

SJICH-CS STANDARD LAYOUT OPERATOR QUANTITIES

							
SJICH0806 (3 DEV.)	SJICH0808 (4 DEV.)	SJICH1008 (6 DEV.)	SJICH1010 (8 DEV.)	SJICH1210 (12 DEV.)	SJICH1212 (15 DEV.)	SJICH1412 (15 DEV.)	SJICH1614 (24 DEV.)

ALTERNATIVE LAYOUTS WITH METERS

							
SJICH0806 (1 Meter & 1 DEV.)	SJICH0808 (1 Meter & 2 DEV.)	SJICH1008 (1 Meter & 3 DEV.)	SJICH1010 (2 Meters & 4 DEV.)	SJICH1210 (2 Meters & 7 DEV.)	SJICH1212 (2 Meters & 9 DEV.)	SJICH1412 (3 Meters & 10 DEV.)	SJICH1614 (3 Meters & 18 DEV.)

Note: Ammeters will use up four spaces.



CONTROLS
HKH SERIES

ACTUATOR PROPERTIES AND PANEL MOUNT INSTALLATION

ATEX/IECEX Certified

0518 II 2 G Ex eb IIC Gb
0518 II 2 D Ex tb IIIC Db
IP66
-50°C ≤ Ta ≤ 60°C
DEMKO 14 ATEX 1400U
Ex eb IIC Gb
Ex tb IIIC Db
-50°C ≤ Ta ≤ +60°C
IECEX UL 14.0104U

cULus Certified

Class I, Zone 1, AEx eb IIC Gb / Ex eb IIC Gb U
Zone 21, AEx tb IIIC Db / Ex tb IIIC Db U
Class I, Division 2, Groups A, B, C, D
Class II, Div. 1, Groups E, F, G (Canada)
Class II, Division 2, Groups E, F, G
Class III, Division 1 (Canada)
Class III
-50°C ≤ Ta ≤ +60°C
Type 3/4/4X/12/13 IP66



HKHPBMSS

Momentary Push Button will depress two Contact Blocks. Supplied with 7 colored inserts.



HKHPBMTTC

Momentary Push Button will depress three Contact Blocks. Supplied with 7 colored inserts.



HKHPBMMMR, HKHPBMMMG, HKHPBMMMB

Momentary Mushroom Push Button will depress two Contact Blocks. Available in Red, Green and Black

HKHPBPMTMR, HKHPBPMTMG, HKHPBPMTMB

Maintained Mushroom Push Button with Pull Release will depress two Contact Blocks. Available in Red, Green and Black.



HKH2PSMTH, HKH2PSMTV, HKH2PSMMRH, HKH2PSMMRV

2 Position Rotary Selector Switches for Maintained and Momentary action will depress two Contact Blocks.

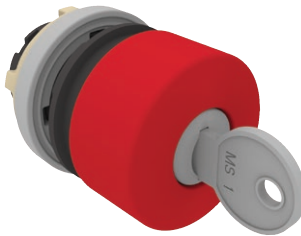
HKH3PSMTIH, HKH3PSMTIV, HKH3PSMMRH, HKH3PSMMRV, HKH3PSMMLH, HKH3PSMMLV, HKH3PSMMLRH, HKH3PSMMLRV

3 Position Rotary Selector Switches for Maintained and Momentary action with Independent Cams that will depress one Contact Block in each Left and Right Positions.



HKHPBILLMM

Momentary Illuminated Push Button with LED Lamp that will depress two Contact Blocks. Available with Red, Green, Amber, Clear and Blue transparent inserts.



HKHPBKMTMRH*, HKHPBKMTMRV*

Maintained Mushroom Push Button with Key Release will depress two Contact Blocks. Available in Red only.

* MS-1 key supplied as standard. Additional key numbers available by adding digit at end of catalog numbers. Key numbers available 2, 3, 4, 5, 6 (HKHPBKMTMRV4)



HKH2PSKH*, HKH2PSKV*

2 Position Key Rotary Selector Switches for Maintained and Momentary action will depress two Contact Blocks.

HKH3PSKIH*, HKH3PSKIV*

3 Position Key Rotary Selector Switches for Maintained and Momentary action with Independent Cams that will depress one Contact Block in each Left and Right Positions.

NOTE: Not rated Type 13



HKHPLR, HKHPLG, HKHPLA, HKHPLC, HKHPLB

Pilot Light Lens Assembly. Available in Red, Green, Amber, Clear and Blue



HKHPBTMTMR

Maintained Mushroom Push Button with Twist Release will depress two Contact Blocks. Available in Red only



HKHDBLPBMMGR

Double Momentary Push Button will depress one Contact Block on each button. Supplied with 7 colored inserts shown by HKHPBMSS.



DIMENSIONAL DATA FOR INSTALLATION OF HKH PANEL MOUNTED ACTUATORS

HAZCON®

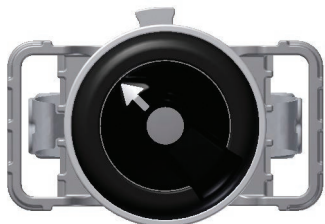


Figure 1

Orientation of rotary actuator part numbers ending in "V"
Keyway positioned at 12 o'clock



Figure 2

Orientation of rotary actuator part numbers ending in "H"
Keyway positioned at 3 o'clock



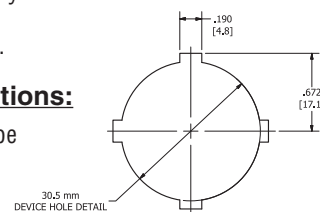
For installation on
Type 1, 3, 3R, 4/4X,
12 & 13 and IP66
Enclosures

For US / CAN Applications:

Actuators and Pilot Light Lens Assembly shall be installed in a Class I, Zone 1, AEx e IIC / Ex e IIC increased safety enclosure where the suitability is determined in the end application.

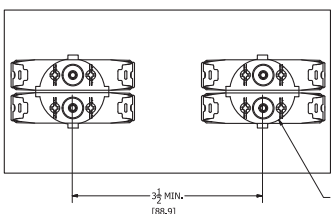
For ATEX / IECEx Applications:

Actuators and Lens Covers shall be installed in a Group I and/or Group II, 'Ex e' increased safety enclosure where the suitability is determined in the end application.

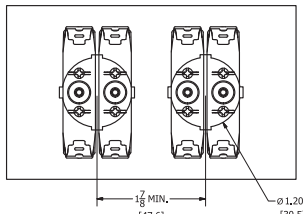


30.5mm Device Hole Detail

Important to maintain Ingress Protection



Minimum spacing for rotary actuator part numbers ending in "V"

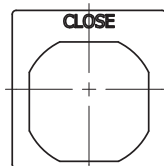


Minimum spacing for rotary actuator part numbers ending in "H"

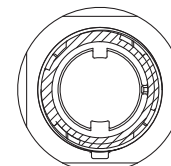
Note: Some Actuators are supplied with an "H" or a "V" at the end of the catalog number. These letters apply to the orientation of the din rail when used in applications with din rails. This feature allows for two different spacings when installed as panel mount. See details for "H" & "V" actuator spacing and contact block orientation.

When installing other actuators such as push buttons & pilot lights the keyway must also be positioned in the same location as the rotary actuators. See Fig. 1 and Fig. 2

ACTUATOR LEGEND PLATES:



Legend Plate



Actuator Housing

HKH actuators will only accept Killark Legend Plates. To insure ingress protection and proper operation is maintained the four flat sides of the plate must match up to the four flat areas on the bottom side of the actuator housing. This must be done to allow the legend plate to float freely under the actuator housing.



HAZCON® CONTROL PANELS

- SJIC-CS, SJICH-CS and USF-CS Control Stations supplied with screw type or cage clamp terminals.
- HKH HAZCON Panel Mount Actuators installed on door and wired to din rail type terminals on request.
- Available in Painted Carbon Steel, 304 & 316 Stainless Steel material in sizes up to 362410 in USF and 161406 in SJIC/SJICH.

Class I, Div. 2, Grps. A, B, C and D
Ex db eb Class I, Zone 1, AEx db eb IIC
T6...T4 Gb
CSA Encl. Type 4 or 4X, IP66
Ta= -50°C to +40°C (Temp Code T6) or
+55°C (Temp Code T5)
or +60°C (Temp Code T4)

 CSA 15.70013827

Note: Refer to "Enclosures" Section for available sizes of USF and SJIC/SJICH Terminal Boxes. Consult Factory for Make to Order Control Stations.



CONTROLS HKH SERIES

ACTUATOR ACCESSORIES



HKHPBMMDHLO



HKHPBSSMFLO



HKHPBMBLO



HKHPBMHLO



HKHMRSRDYL



HKHDBLPBMMDHLO



HKH2PSSHLO



HKH3PSSHLO

L1 – HINGED STAINLESS STEEL LOCKOUT for standard momentary push button in depressed position

L2 – PLASTIC FLIP COVER LOCKOUT used for momentary push button actuators, selector switch actuators, and mushroom push button actuators

L3 – BAR ON CHAIN STAINLESS STEEL LOCKOUT used for mushroom push buttons in depressed position

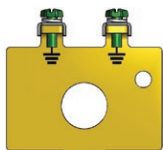
L4 – HINGED STAINLESS STEEL LOCKOUT for mushroom push button in depressed position

L5 – PLASTIC MUSHROOM BUTTON SHROUD

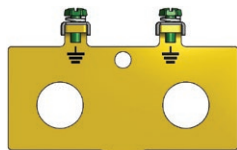
L6 – HINGED STAINLESS STEEL LOCKOUT for double momentary push button in depressed position

L7 – HINGED STAINLESS STEEL LOCKOUT for 2 position rotary selector switch in left or right position

L8 – HINGED STAINLESS STEEL LOCKOUT for 3 position rotary selector switch in left, center or right position



HKHGP11M20



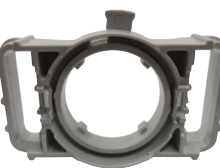
HKHGP22M20



HKHANTOOL



HKHCP

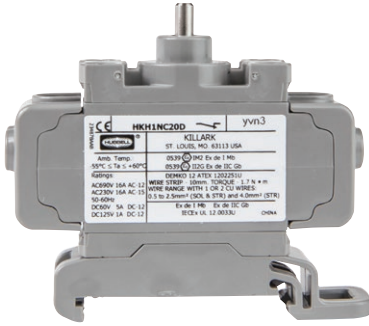


HKHPMBRKT (2 Modules)
HKHPMBRKTMM (3 Modules)
One panel mount bracket required with each actuator for panel mount applications. Additionally use contact blocks and pilot light modules ending in "P". HKHPMBRKTMM used only with HKHPBMMTC and HKHPBILLMM

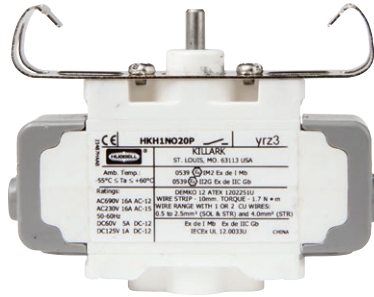
ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
HKHPBSSMFLO	Mom. PB, Selector Switch, Mushroom PB, Plastic Flip Cover Lockout
HKHPBMMDHLO	PB Depressed Std. Momentary Hinged Stainless Steel Lockout
HKHPBMHLO	PB Depressed Mushroom Hinged Stainless Steel Lockout
HKHPBMBLO	Mushroom Bar On Chain Stainless Steel Lockout
HKHDBLPBMMDHLO	Double PB Depressed Momentary Hinged Stainless Steel Lockout
HKH2PSSHLO	2 Position Rotary Selector Switch Hinged Stainless Steel Lockout
HKH3PSSHLO	3 Position Rotary Selector Switch Hinged Stainless Steel Lockout
BRASS EARTH CONTINUITY PLATE (ECP)	
CATALOG NUMBER	DESCRIPTION
HKHGP12M20	Ground Plate, Brass SZ 1 Encl. 2-M20
HKHGP11M20	Ground Plate, Brass SZ 1 Encl. 1-M20
HKHGP11M25	Ground Plate, Brass SZ 1 Encl. 1-M25
HKHGP11M32	Ground Plate, Brass SZ 1 Encl. 1-M32
HKHGP22M25	Ground Plate, Brass SZ 2 Encl. 2-M25
HKHGP22M20	Ground Plate, Brass SZ 2 Encl. 2-M20
HKHGP21M32	Ground Plate, Brass SZ 2 Encl. 1-M32
ACTUATOR NUT ASSEMBLY TOOL	
HKHANTOOL	Actuator Nut Assembly Tool
CONTACT BLOCK & PILOT LIGHT PANEL MOUNT BRACKET	
HKHPMBRKT	Contact Block & Pilot Light Panel Mount Bracket
HKHPMBRKTMM	Panel Mount Bracket for 3 modules
COVER PLUG	
HKHCP	Cover Device Plug
MUSHROOM BUTTON SHROUDS	
HKHMRSRDYL	Yellow Shroud (Specify Marking if Required)
HKHMRSRDBK	Black Shroud (Specify Marking if Required)



FACTORY SEALED CONTACT BLOCK MODULES



HKH1NC20D



HKH1NO20P

ATEX/IECEx Certified

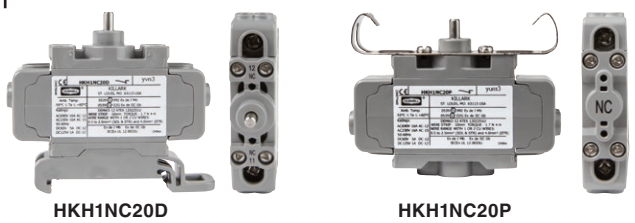
0518 I M 2 Ex de I Mb
0518 II 2 G Ex de IIC Gb
Ambient Range: -55°C < Ta < 60°C
DEMKO 12 ATEX 1202251U
Ex de I Mb Ex de IIC Gb
IECEx UL 12.0033U

cULus Certified

Class I, Zone 1, AEx de IIC T4 / Ex de IIC T4 X
Class I, Division 2, Groups A, B, C, D
Ambient Range: -55°C < Ta < 60°C



Normally Closed Contact Identification:
All Gray marked: N.C./ (11&12)



Normally Open Contact Identification:
White center body with gray terminal covers marked: N.O./ (13&14)



HAZCON™

Applications

Standard control station assemblies are supplied with electrical devices mounted to a din rail inside the box portion of the control station, identified with a "D" in the catalog number. i.e. HKH1AND2P11K8, containing contact blocks ending in "D". When panel or cover mounted version is desired one HKHPMBRKT bracket is required for each actuator to assemble contacts, no DIN Rail supplied. Bracket will mount one contact block in the center or two side by side. Contact block part numbers ending in "P" supplied. Complete control station catalog number to be HKH1ANP2P11K8.

CONTACT BLOCK APPLICATIONS FOR US/CAN:

Contact block shall be installed in a Class I, Zone 1, AEx e II/Ex e IIC increased safety enclosure with a minimum IP54 rating or a Class I, Zone 1, AEx d IIC/Zone 21, Aex tb minimum IP64 rating, where the suitability is determined in the end application.

CONTACT BLOCK APPLICATIONS FOR ATEX/IECEx:

Contact block shall be installed in a Group I and/or Group II, 'Ex e' increased safety enclosure with a minimum IPS4 rating or an 'Ex d/ tb' flameproof/dust enclosure with a minimum IP64 rating, where the suitability is determined in the end application.

CONTACT BLOCK FEATURES:

- **UL ELECTRICAL RATING:** 690Vac, 20A, 50-60Hz, 60Vdc, 5A, 110Vdc, 2A, 255Vdc, 1.5A, 1/2 HP @120Vac, 1 HP@208/240/277Vac, A600/P600- Pilot Duty 350Vac-Tungsten Lamp.
- **UL WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: #22 to #12 AWG (SOL & STR) and #10 AWG (STR).
- **IEC ELECTRICAL RATINGS:** AC690V 16A AC-12, 50-60 Hz, AC230V 16A AC-15, 50-60Hz, DC60V 5A DC-12, DC125 1A DC-13.
- **IEC WIRE ALLOWANCES:** WIRE RANGE with 1 or 2 WIRES: 0.5 to 2.5mm (SOL & STR) and 4.0mm² (STR)
- Silver Alloy contacts with Gold Flashing.



SS Terminal Screw Head for use with the following screwdriver types:

- Slotted
- Phillips
- Robertson



Wire Range for 1 or 2 conductors as listed:

- 0.5 to 2.5mm² (SOL & STR)
- 4.0mm² (STR)
- #22 to #12 AWG (SOL & STR)
- #10 AWG (STR)

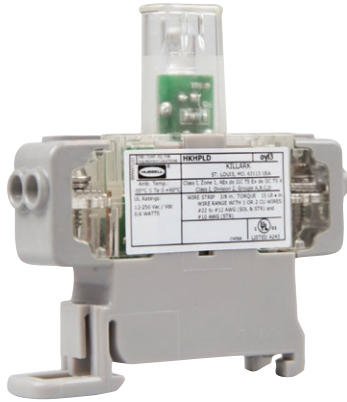
CONTACT BLOCK

CATALOG NUMBERS	DESCRIPTION
HKH1NO20D	N.O. Contact, 20A DIN Rail Mount
HKH1NC20D	N.C. Contact, 20A DIN Rail Mount
HKH1NO20P	N.O. Contact, 20A Panel Mount
HKH1NC20P	N.C. Contact, 20A Panel Mount

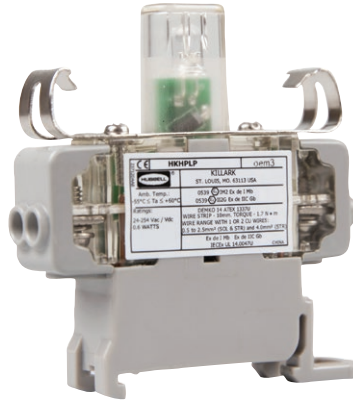


CONTROLS HKH SERIES

FACTORY SEALED PILOT LIGHT MODULES



HKHPLD



HKHPLP

ATEX/IECEx Certified

0518 I M 2 Ex de I Mb
0518 II 2 G Ex de IIC Gb
Ambient Range: -50°C < Ta < 60°C
DEMKO 14 ATEX 1337U
Ex de I Mb Ex de IIC Gb
IECEx UL 14.0047U

cULus Certified

Class I, Zone 1, AEx de IIC T5 / Ex de IIC T5 X
Class I, Division 2, Groups A, B, C, D
Ambient Range: -50°C < Ta < 60°C



PILOT	
CATALOG NUMBERS	DESCRIPTION
HKHPLD	Pilot Light Module DIN Rail Mount
HKHPLP	Pilot Light Module Panel Mount

PILOT LIGHT APPLICATIONS FOR US/CAN:

Pilot Light shall be installed in a Class I, Zone 1, AEx e IIC/Ex e IIC increased safety enclosure with a minimum IP54 rating or a Class I, Zone 1, AEx d IIC/Zone 21, AEx tb IIC/Ex d IIC/Ex tb IIC flameproof/dust enclosure with a minimum IP64 rating, where the suitability is determined in the end application. **ELECTRICAL RATING:** 12-250Vac/Vdc, 50-60 Hz, 0.6 WATTS.

PILOT LIGHT APPLICATIONS FOR ATEX/IECEx:

Pilot Light shall be installed in a Group I and/or Group II, 'Ex e' increased safety enclosure with a minimum IP54 rating or an 'Ex d/tb' flameproof/dust enclosure with a minimum IP64 rating, where the suitability is determined in the end application. **ELECTRICAL RATING:** 12-254 Vac/Vdc, 50-60 Hz, 0.6 WATTS.

WIRE ALLOWANCES:

WIRE RANGE with 1 or 2 WIRES: #22 to #12 AWG (SOL & STR) and #10 AWG (STR) 0.5 to 2.5mm (SOL & STR) and 4.0mm² (STR)

AMMETERS, 1A, 72MM



MEASURING TYPE	OVERLOAD SCALE	MEASURING RANGE
Direct Measuring	2	0-1 / 2A
		0-4 / 8A
		0-5 / 10A
		0-10 / 20A
		0-15 / 30A
For Current Transformer	5	0-1 / 5A
		0-2.5 / 12.5A
		0-5 / 25A
		0-15 / 75A
		0-25 / 125A
		0-40 / 200A
		0-50 / 250A
		0-60 / 300A
		0-75 / 375A
		0-100 / 500A
		0-150 / 750A
		0-200 / 1000A
		0-250 / 1250A
		0-300 / 1500A
		0-400 / 2000A
0-500 / 2500A		
0-600 / 3000A		



VOLTMETERS, 72MM



RANGE (AC)
0-25V
0-40V
0-150V
0-250V
0-500V



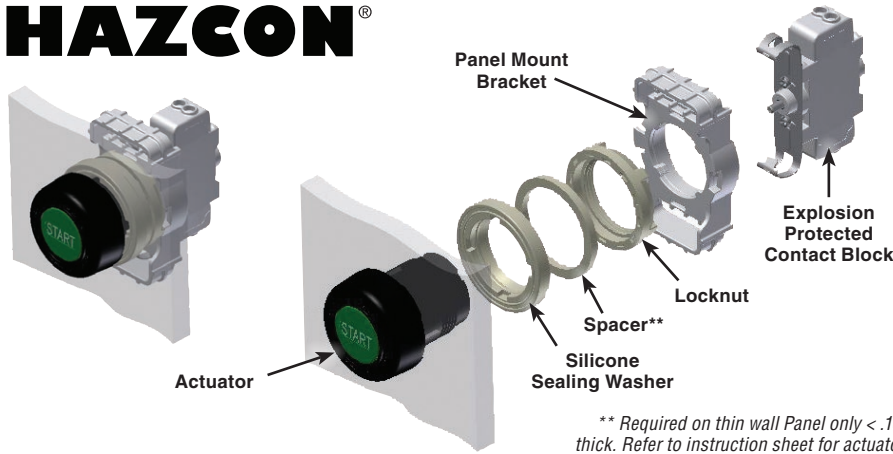
ATEX/IECEx Certified

Ex e II
IECEx CQM 08.0007U
 II 2G Ex e II
DNV-2008-OSL
-ATEX-21659U
-40°C < Ta < 60°C



ACTUATOR ASSEMBLIES FOR PANEL MOUNT APPLICATIONS

HAZCON®



** Required on thin wall Panel only < .16" thick. Refer to instruction sheet for actuator.

ATEX/IECEX Certified
0518 Ⓢ II 2 G Ex eb IIC Gb
0518 Ⓢ II 2 D Ex tb IIIC Db
IP66

-50°C ≤ Ta ≤ 60°C
DEMKO 14 ATEX 1400U
Ex eb IIC Gb
Ex tb IIIC Db
-50°C ≤ Ta ≤ +60°C
IECEX UL 14.0104U

cULus Certified
Class I, Zone 1, AEx eb IIC Gb / Ex eb IIC Gb U
Zone 21, AEx tb IIIC Db / Ex tb IIIC Db U
Class I, Division 2, Groups A, B, C, D
Class II, Div. 1, Groups E, F, G (Canada)
Class II, Division 2, Groups E, F, G
Class III

-50°C ≤ Ta ≤ +60°C
Type 3/4/4X/12/13 IP66



Complete actuator catalog numbers with contacts for mounting to your panel with cover thickness from 0.04" to 0.25".

MOMENTARY START/STOP PUSH BUTTONS	
BASIC CATALOG NUMBERS	DESCRIPTION
HKHPBMSS1	Momentary Push Button with 1 N.O. and 1 N.C. contact – includes Grn Start, Grn (i), Red Stop and Red O, Green, Red and Black blank disc 7 HKHPMBRKT
HKHPBMTC1	Momentary Push Button, 3 contacts
HKHPBILLMM1	Momentary Illuminated Push Button
MOMENTARY MUSHROOM HEAD PUSH BUTTONS	
HKHPBMMR1	Momentary Mushroom PB, Red with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBMMB1	Momentary Mushroom PB, Black with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBMMG1	Momentary Mushroom PB, Green with 1 N.O. and 1 N.C. contact and HKKPMBRKT
DOUBLE MOMENTARY PUSH BUTTON	
HKHDBLPBMGR1	Double Momentary Push Button, Red and Green Buttons with 1 N.O. and 1 N.C. and HKHPMBRKT
MAINTAINED MUSHROOM HEAD PUSH BUTTONS	
HKHPBMTMR1	Maintained Mushroom Push/Pull PB, Red with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBMTMB1	Maintained Mushroom Push/Pull PB, Black with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBMTMG1	Maintained Mushroom Push/Pull PB, Green with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBTMTMR1	Maintained Mushroom PB Twist Release, Red with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBKMTMRH1	Maintained Push Button Key Release, Mushroom Red HD, horizontal with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKHPBKMTMRV1	Maintained Push Button Key Release, Mushroom Red HD, vertical with 1 N.O. and 1 N.C. contact and HKKPMBRKT
PILOT LIGHT LENS ASSEMBLY	
HKHPLRL	Pilot Light Red Lens Assembly with 12-254V AC/DC lamp module
HKHPLGL	Pilot Light Green Lens Assembly with 12-254V AC/DC lamp module
HKHPLAL	Pilot Light Amber Lens Assembly with 12-254V AC/DC lamp module
HKHPLCL	Pilot Light Clear Lens Assembly with 12-254V AC/DC lamp module
HKHPLBL	Pilot Light Blue Lens Assembly with 12-254V AC/DC lamp module
2 POSITION SELECTOR SWITCHES	
HKH2PSMTH1	2 Position Maintained Contact, Horizontal with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKH2PSMTV1	2 Position Maintained Contact, Vertical with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKH2PSMMRH1	2 Position Momentary Right Contact, Horizontal with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKH2PSMMRV1	2 Position Momentary Right Contact, Vertical with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKH2PSKH1Ⓢ	2 Position Keyed, Maint./Mom. right, horizontal with 1 N.O. and 1 N.C. contact and HKKPMBRKT
HKH2PSKV1Ⓢ	2 Position Keyed Maint./Mom. right, vertical with 1 N.O. and 1 N.C. contact and HKKPMBRKT
3 POSITION SELECTOR SWITCHES	
HKH3PSMTIH4	3 Pos. Maintained Contact Independent Cam, Horizontal with 2 N.O. contacts and HKKPMBRKT
HKH3PSMTIV4	3 Pos. Maintained Contact Independent Cam, Vertical with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMRH4	3 Pos. Mom. Right Maint. Left/Cntr Independent Cam, Horizontal with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMRV4	3 Pos. Mom. right Maint. Left/Cntr Independent Cam, Vertical with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMLH4	3 Pos. Mom. Left, Maint. Right/Cntr Independent Cam, Horizontal with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMLV4	3 Pos. Mom. Left, Maint. Cntr/Right Independent Cam, Vertical with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMLRH4	3 Pos. Mom. Left/Right, Maint. Cntr Independent Cam, Horizontal with 2 N.O. contacts and HKKPMBRKT
HKH3PSMMLRV4	3 Pos. Mom. Left/Right, Maint. Cntr Independent Cam, Vertical with 2 N.O. contacts and HKKPMBRKT
HKH3PSKIH4Ⓢ	3 Position Keyed Maint./Mom. Independent Cam, horizontal with 2 N.O. contacts and HKKPMBRKT
HKH3PSKIV4Ⓢ	3 Position Keyed Maint./Mom. Independent Cam, vertical with 2 N.O. contacts and HKKPMBRKT

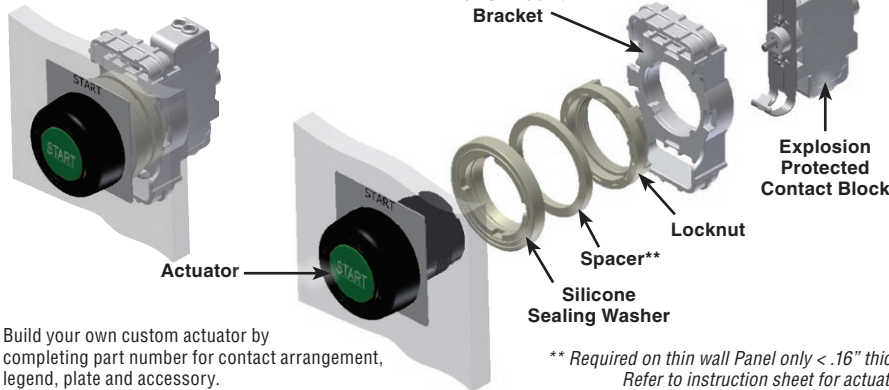
Ⓢ Keyed Rotary Selectors are not Type 13.



CONTROLS HKH SERIES

ACTUATOR ASSEMBLIES FOR PANEL MOUNT APPLICATIONS MADE TO YOUR SPECIFICATIONS

HAZCON®



Build your own custom actuator by completing part number for contact arrangement, legend, plate and accessory.

** Required on thin wall Panel only < .16" thick. Refer to instruction sheet for actuator

ATEX/IECEX Certified

0518 Ex II 2 G Ex eb IIC Gb
0518 Ex II 2 D Ex tb IIIC Db
IP66

-50°C ≤ Ta ≤ 60°C

DEMKO 14 ATEX 1400U

Ex eb IIC Gb

Ex tb IIIC Db

-50°C ≤ Ta ≤ +60°C

IECEX UL 14.0104U

cULus Certified

Class I, Zone 1, AEx eb IIC Gb / Ex eb IIC Gb U

Zone 21, AEx tb IIIC Db / Ex tb IIIC Db U

Class I, Division 2, Groups A, B, C, D

Class II, Div. 1, Groups E, F, G (Canada)

Class II, Division 2, Groups E, F, G

Class III

-50°C ≤ Ta ≤ +60°C

Type 3/4/4X/12/13 IP66



To order complete with mounting bracket, contacts or pilot light module add suffix to end of catalog number for each;

CONTROL MODULE

L – Led Lamp 3 – 1NC *6 – 2NO/1NC ‡10 – 1NO/1NC/LED
1 – 1NO/1NC 4 – 2NO *7 – 1NO/2NC ‡11 – 2NO/LED
2 – 1NO 5 – 2NC *8 – 3NO ‡12 – 2NC/LED
*9 – 3NC

* Available only with operator HKHPBMMTC

‡ Available only with operator HKHPBILLMM

LEGEND PLATE

A – Start	Q – Down
B – Stop	R – On-Off
C – On	S – Off-Off
D – Off	T – Up-Down
E – Emergency Stop	X – Hand-Auto
F – Push To Test	Y – Open-Close
G – Raise	Z – Off-Remote
H – Lower	0 – Blank
J – Open	1 – Specify Custom Marking
K – Close	2 – Raise-Off-Lower
L – Forward	3 – Jog-Off-Run
M – Reverse	4 – Run-Off-Jog
N – Reset	5 – Fwd-Off-Rev
P – Up	9 – Hand-Off-Auto

ACCESSORY

L1 – Lockout SST Depressed Lockout, Push Button, Momentary
L2 – Lockout, Plastic Cover, Push Button, Mushroom, Selector
L3 – Lockout, SST Bar Lockout, Push Button, Depressed Mushroom
L4 – Lockout, SST Hinged, Push Button, Depressed Mushroom
L6 – Hinged Stainless Steel Lockout for double momentary push button in depressed position
L7 – Hinged Stainless Steel Lockout for 2 position rotary selector switch in left or right position
L8 – Hinged Stainless Steel Lockout for 3 position rotary selector switch in left, center or right position

i.e. Momentary Push Button complete with Panel Mounting Bracket, control module for 1NO/1NC contact, "START" Legend Plate, and plastic Flip Cover Lockout: HKHPBMMSS1AL2

For red Pilot Light complete with Panel Mounting Bracket, LED Module, and "OFF" Legend Plate: HKHPLRLD

MOMENTARY START/STOP PUSH BUTTONS	
BASIC CATALOG NUMBERS	DESCRIPTION
HKHPBMMSS(†)	Momentary PB, w/ GREEN Start, GREEN (I), Red Stop and Red (O), GREEN, RED and BLACK BLANK Discs
HKHPBMMTC()	Momentary Push Button, 3 Contacts
HKHPBILLMM()	Momentary Illuminated Push Button
MOMENTARY MUSHROOM HEAD PUSH BUTTONS	
HKHPBMMMR()	Momentary Mushroom PB, Red
HKHPBMMMB()	Momentary Mushroom PB, Black
HKHPBMMMG()	Momentary Mushroom PB, Green
DOUBLE MOMENTARY PUSH BUTTON	
HKHDBLPBMMGR()	Double Momentary PB, Green and Red Buttons
MAINTAINED MUSHROOM HEAD PUSH BUTTONS	
HKHPBMTMR()	Maintained Mushroom Push/Pull PB, Red
HKHPBMTMB()	Maintained Mushroom Push/Pull PB, Black
HKHPBMTMG()	Maintained Mushroom Push/Pull PB, Green
HKHPBTMTMR()	Maintained Mushroom PB Twist Release, Red
HKHPBKMTMRH()②	Maintained Push Button Key Release, Mushroom Red HD, Horizontal
HKHPBKMTMRV()②	Maintained Push Button Key Release, Mushroom Red HD, Vertical
PILOT LIGHT LENS ASSEMBLY	
HKHPLR()	Pilot Light Red Lens Assembly
HKHPLG()	Pilot Light Green Lens Assembly
HKHPLA()	Pilot Light Amber Lens Assembly
HKHPLC()	Pilot Light Clear Lens Assembly
HKHPLB()	Pilot Light Blue Lens Assembly
2 POSITION SELECTOR SWITCHES	
HKH2PSMTH()	2 Position Maintained Contact, Horizontal
HKH2PSMTV()	2 Position Maintained Contact, Vertical
HKH2PSMMRH()	2 Position Momentary Right Contact, Horizontal
HKH2PSMMRV()	2 Position Momentary Right Contact, Vertical
HKH2PSKH()①②	2 Position Keyed, Maint./Mom. Right, Horizontal
HKH2PSKV()①②	2 Position Keyed Maint./Mom. Right, Vertical
3 POSITION SELECTOR SWITCHES	
HKH3PSMTH()	3 Pos. Maintained Contact Independent Cam, Horizontal
HKH3PSMTIV()	3 Pos. Maintained Contact Independent Cam, Vertical
HKH3PSMMRH()	3 Pos. Mom. Right Maint. Left/Cntr Independent Cam, Horizontal
HKH3PSMMRV()	3 Pos. Mom. Right Maint. Left/Cntr Independent Cam, Vertical
HKH3PSMMLH()	3 Pos. Mom. Left, Maint. Right/Cntr Independent Cam, Horizontal
HKH3PSMMLV()	3 Pos. Mom. Left, Maint. Cntr/Right Independent Cam, Vertical
HKH3PSMMLRH()	3 Pos. Mom. Left/Right, Maint. Cntr Independent Cam, Horizontal
HKH3PSMMLRV()	3 Pos. Mom. Left/Right, Maint. Cntr Independent Cam, Vertical
HKH3PSKIH()①②	3 Position Keyed Maint./Mom. Independent Cam, Horizontal
HKH3PSKIV()①②	3 Position Keyed Maint./Mom. Independent Cam, Vertical

① Keyed Rotary Selectors are not Type 13.

② All Keyed Actuators supplied with MS-1 key as standard. For different key add digit; 2, 3, 4, 5, or 6 after "H" or "V" in catalog number.



FACTORY SEALED CONTROLS - INTRODUCTION

SEAL-XM®



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
Type 3

 Certified File 2493125

FEATURES-SPECIFICATIONS

Features

- Incorporates Factory Sealed Universal contact blocks and GOB3 LED pilot light devices
- External sealing fitting not required on standard assemblies. Group B configurations require sealing fitting beyond 60”.
- No seal plate between the electrical device and back box allows direct wiring to contact terminals
- Type 3 weatherproof
- Grounding boss supplied in the splice box
- Sold as complete units with 1/2”, 3/4”, or 1” hubs, in Dead End or Feed Thru configurations.
- More wiring room in back box

Materials

- | |
|--|
| 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
 - Standard finish is a grey epoxy powder baked on for ultimate corrosion resistance

Hazardous Rating:

Class I, Division 2, Groups A,B,C,D;
Class I, Zone 1, Group IIC

Terminal Capacity:

22 thru 12 AWG [0.52-2.5mm²] copper, solid or stranded conductors. Tightening torque: 20 in-lbs (2.2Nm)

Contact Electrical Ratings:

NEMA A600/P600 - Pilot Duty; 690VAC, 10A, 50-60Hz; 1/2HP @ 120VAC; 1HP @ 208/240/277 VAC; 60VDC, 5A; 110VDC, 2A; 250VDC, 1.5A; 600VDC, 0.2A

Pilot Light Electrical Ratings:

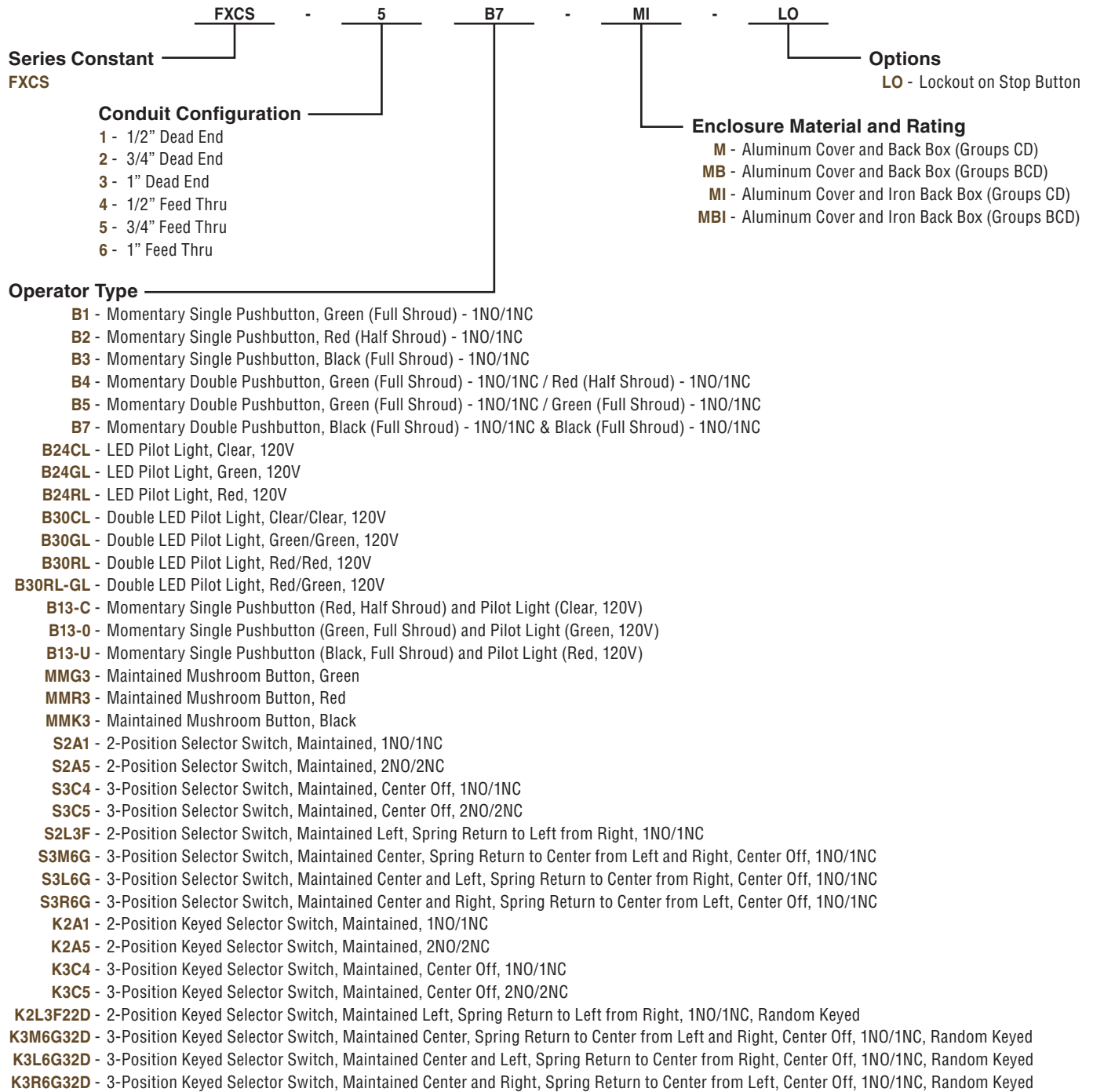
250 VAC max.



CONTROLS

SEAL-XM™ SERIES

FACTORY SEALED CONTROLS - CATALOG LOGIC





FACTORY SEALED CONTROL STATIONS



Single Push Button



Double Push Button



LED Pilot Light

SEAL-XM MOMENTARY CONTACT SINGLE PUSH BUTTON

CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LEGEND PLATE MARKING
BOX COVER					
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	FXCS-4B2-M	1/2"		Red	Stop
FXCS-2B2-M	FXCS-5B2-M	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
BOX & COVER					
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	VOLTAGE ^③	LENS COLOR	LEGEND PLATE MARKING
BOX & COVER						
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"				



CONTROLS
SEAL-XM™ SERIES

FACTORY SEALED CONTROL STATIONS



Double LED
Pilot Light



Push Button
LED Pilot Light



Push/Pull
Mushroom

SEAL-XM DOUBLE LED PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	LAMP VOLTS	LENS COLOR	LEGEND PLATE MARKING
BOX & COVER						
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 VOLTS	BUTTON COLOR	LENS COLOR	LEGEND PLATE MARKING	
BOX & COVER							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 MARKING
BOX & COVER					
DEAD-END	FEED-THRU				
FXCS-1MMG3-M	FXCS-4MMG3-M	1/2"		Green	Start
FXCS-2MMG3-M	FXCS-5MMG3-M	3/4"			
FXCS-1MMR3-M	FXCS-4MMR3-M	1/2"		Red	Stop
FXCS-2MMR3-M	FXCS-5MMR3-M	3/4"			
FXCS-1MMK3-M	FXCS-4MMK3-M	1/2"		Black	Specify
FXCS-2MMK3-M	FXCS-5MMK3-M	3/4"			



FACTORY SEALED CONTROL STATIONS



Two Position Selector Switch



Three Position Selector Switch

SEAL-XM TWO POSITION SELECTOR SWITCH - MAINTAINED CONTACT

CATALOG NUMBER BOX & COVER		HUB SIZE	LEFT POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU				
FXCS-1S2A1-M	FXCS-4S2A1-M	1/2"			BLANK & OFF-ON
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 BOX & COVER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU					
FXCS-1S3C4-M	FXCS-4S3C4-M	1/2"				BLANK or HAND-OFF-AUTO
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 BOX & COVER		HUB SIZE	LEFT POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU				
FXCS-1S2L3F-M	FXCS-4S2L3F-M	1/2"			BLANK & OFF-ON
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 BOX & COVER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU					
FXCS-1S3M6G-M	FXCS-4S3M6G-M	1/2"				BLANK or HAND-OFF-AUTO
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"				BLANK or HAND-OFF-AUTO
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"				BLANK or HAND-OFF-AUTO
FXCS-2S3R6G-M	FXCS-5S3R6G-M	3/4"				
SPRING RETURN TO CENTER FROM LEFT - MAINTAINED CENTER AND RIGHT						



CONTROLS
SEAL-XM™ SERIES

FACTORY SEALED CONTROL STATIONS



Keyed Selector Switch

SEAL-XM TWO POSITION KEYED SELECTOR SWITCH - MAINTAINED CONTACT					
CATALOG NUMBER BOX & COVER		HUB SIZE	LEFT POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU				
FXCS-1K2A1-M	FXCS-4K2A1-M	1/2"			BLANK & OFF-ON
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 BOX & COVER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU					
FXCS-1K3C4-M	FXCS-4K3C4-M	1/2"				BLANK or HAND-OFF-AUTO
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 BOX & COVER		HUB SIZE	LEFT POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU				
FXCS-1K2L3F22D-M	FXCS-4K2L3F22D-M	1/2"			BLANK & OFF-ON
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 BOX & COVER		HUB SIZE	LEFT POSITION	CENTER POSITION	RIGHT POSITION	STANDARD NAMEPLATE MARKINGS
DEAD-END	FEED-THRU					
FXCS-1K3M6G32D-M	FXCS-4K3M6G32D-M	1/2"				BLANK or HAND-OFF-AUTO
FXCS-2K3M6G32D-M	FXCS-5K3M6G32D-M	3/4"				

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

FXCS-1K3L6G32D-M	FXCS-4K3L6G32D-M	1/2"				BLANK or HAND-OFF-AUTO
FXCS-2K3L6G32D-M	FXCS-5K3L6G32D-M	3/4"				

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

FXCS-1K3R6G32D-M	FXCS-4K3R6G32D-M	1/2"				BLANK or HAND-OFF-AUTO
FXCS-2K3R6G32D-M	FXCS-5K3R6G32D-M	3/4"				

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



FACTORY SEALED CONTROL STATIONS



Class I, Div. 1 & 2, Groups C,D
 Class I, Zones 1 & 2, Groups IIB, IIA
 Class II, Div. 1 & 2, Groups E,F,G
 Class III
 Type 3

LISTED - File E53360 and/or E12379

Certified - File LR11714

FEATURES-SPECIFICATIONS

Features

- **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. Factory poured seals around the wiring pigtails insure safe sealing.
- Lower installation cost
- Type 3 weatherproof
- Color coded wiring-more wiring space-easier field installation
- Lockout accessory available; must be factory installed.
- Ground boss for grounding in the splice box
- Cast conduit hubs 1/2", 3/4" and 1" either dead end or feed through standard in both single and two gang assemblies
- Miniature and standard size push buttons. (Miniature 3/4" overall diameter, standard 1 3/8" overall diameter)
- Key operated selector switches are randomly keyed with keys removable in all positions. Keyed alike or key removable in non-standard positions available from factory.

Materials

- Stainless steel captive screws for cover assembly
- Device bodies and covers are cast copper-free aluminum alloy
- Push button, selector switches and pilot light bodies are copper-free aluminum
- Operating shaft in both push buttons and selector switches are stainless steel

Electrical Rating

Push button stations, selector switches
 600 VAC max. heavy duty.

Pilot Light Electrical Ratings:
 250 VAC max.

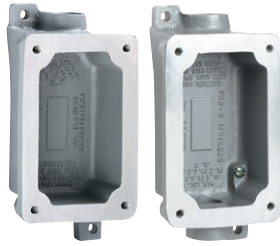
CONTACT BLOCK RATINGS – A600				
CURRENT	120 VAC	240 VAC	480 VAC	600 VAC
INRUSH	60	30	15	12
BREAKING	6	3	1.5	1.2
CARRYING	10	10	10	10

DC RATINGS (MAX. AMPS) – P600		
CURRENT	125 VDC	250 VDC
INRUSH	.55	.27
BREAKING	.55	.27
CARRYING	2.55	2.55



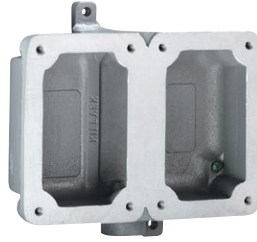
CONTROLS FXB SERIES

FACTORY SEALED SPLICE BOXES SEALING METHODS

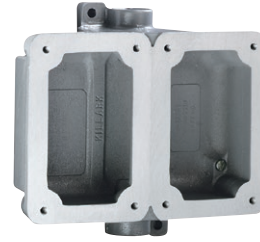


FXB-2
Dead End

FXB-5
Feed Thru



FXB-8
Double Gang Dead End



FXB-11
Double Gang Feed Thru

Splice Boxes

The FXB Series of splice boxes are designed for use with the FXCS and FXS Series of cover sub-assemblies.

FXB BACK BOX SELECTION AND DIMENSIONS							
CATALOG NUMBER	DESCRIPTION	HUB SIZE	EXTERNAL			MOUNTING	
			LENGTH	WIDTH	DEPTH	VERTICAL	HORIZONTAL
FXB-1	Single gang/Dead-end	1/2"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-2	Single gang/Dead-end	3/4"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-3	Single gang/Dead-end	1"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-4	Single gang/Feed-thru	1/2"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-5	Single gang/Feed-thru	3/4"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-6	Single gang/Feed-thru	1"	6-13/16"	3-11/16"	1-3/4"	6-3/16"	2-1/4"
FXB-7	Double gang/Dead-end	1/2"	6-13/16"	7-17/32"	2	6-3/16"	2-1/4"
FXB-8	Double gang/Dead-end	3/4"	6-13/16"	7-17/32"	2	6-3/16"	2-1/4"
FXB-9	Double gang/Dead-end	1"	7	7-17/32"	2	6-3/16"	2-1/4"
FXB-10	Double gang/Feed-thru	1/2"	6-13/16"	7-17/32"	2	6-3/16"	2-1/4"
FXB-11	Double gang/Feed-thru	3/4"	6-13/16"	7-17/32"	2	6-3/16"	2-1/4"
FXB-12	Double gang/Feed-thru	1"	7	7-17/32"	2	6-3/16"	2-1/4"

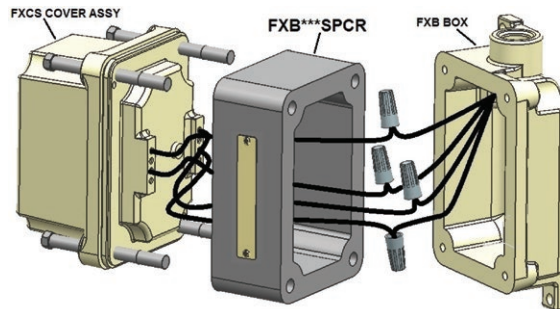
FXB BLANK COVER	
CATALOG NUMBER	DESCRIPTION
FX-10	BLANK COVER FOR FXB



Certified File No. LR11714

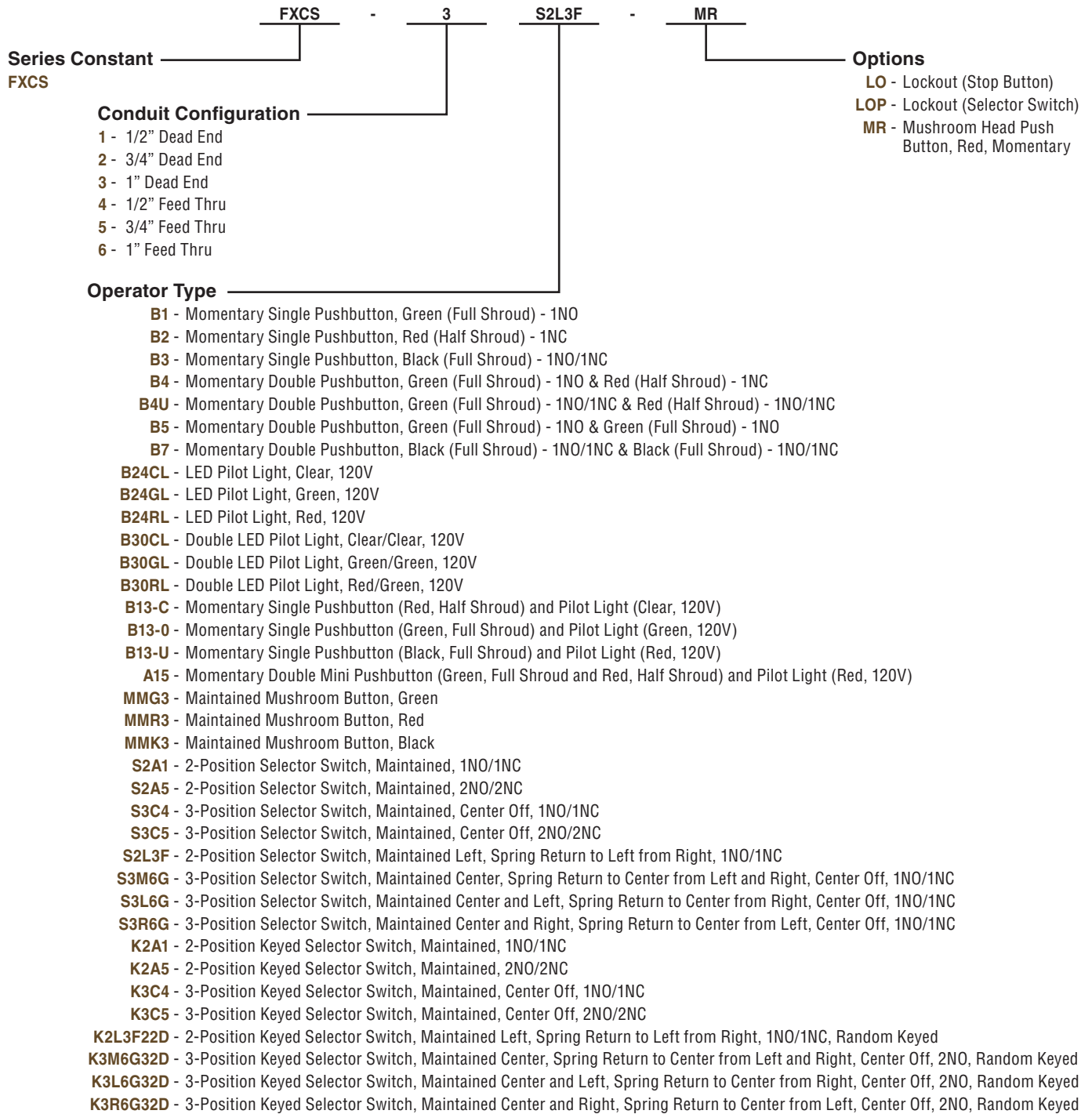
US LISTED File Number E53360

FXB SPACER	
CATALOG NUMBER	DESCRIPTION
FXB075SPCR	SPACER, 3/4" ADDITIONAL DEPTH
FXB10SPCR	SPACER, 1" ADDITIONAL DEPTH
FXB15SPCR	SPACER, 1 1/2" ADDITIONAL DEPTH
FXB20SPCR	SPACER, 2" ADDITIONAL DEPTH





FACTORY SEALED CONTROL STATIONS - CATALOG LOGIC





CONTROLS
FXCS SERIES

FACTORY SEALED CONTROL STATIONS



2 Gang Box and
Two Cover Assemblies

FXCS MOMENTARY CONTACT SINGLE PUSH BUTTON

CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING	
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
FXCS-0B1	FXCS-1B1	FXCS-4B1	1/2"		Green	Start
	FXCS-2B1	FXCS-5B1	3/4"			
FXCS-0B2	FXCS-1B2	FXCS-4B2	1/2"		Red	Stop
	FXCS-2B2	FXCS-5B2	3/4"			
FXCS-0B3	FXCS-1B3	FXCS-4B3	1/2"		Black	Specify
	FXCS-2B3	FXCS-5B3	3/4"			

FXCS MOMENTARY CONTACT DOUBLE PUSH BUTTON

CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING	
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
FXCS-0B4	FXCS-1B4	FXCS-4B4	1/2"		Green/Red	Start/Stop
	FXCS-2B4	FXCS-5B4	3/4"			
FXCS-0B4U	FXCS-1B4-U	FXCS-4B4-U	1/2"		Green/Red	Start/Stop
	FXCS-2B4-U	FXCS-5B4-U	3/4"			
FXCS-0B5	FXCS-1B5	FXCS-4B5	1/2"		Green/Green	Specify
	FXCS-2B5	FXCS-5B5	3/4"			
FXCS-0B7	FXCS-1B7	FXCS-4B7	1/2"		Black/Black	Specify
	FXCS-2B7	FXCS-5B7	3/4"			

FXCS PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	VOLT	LENS COLOR	NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
FXCS-0B24CL	FXCS-1B24-CL	FXCS-4B24-CL	1/2"		120V	Clear
	FXCS-2B24-CL	FXCS-5B24-CL	3/4"			
FXCS-0B24GL	FXCS-1B24-GL	FXCS-4B24-GL	1/2"		120V	Green
	FXCS-2B24-GL	FXCS-5B24-GL	3/4"			
FXCS-0B24RL	FXCS-1B24-RL	FXCS-4B24-RL	1/2"		120V	Red
	FXCS-2B24-RL	FXCS-5B24-RL	3/4"			



FACTORY SEALED CONTROL STATIONS



Pilot Light and 2 Mini P.B.
(Box and Cover)



Double Pilot Lights
(Box and Cover)



Maintained Push Button
(Box and Cover)

FXCS DOUBLE PILOT LIGHTS

COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)		HUB SIZE	DIAGRAM	LAMP VOLTS	LENS COLOR	NAMEPLATE MARKING	
	DEAD-END	FEED-THRU					BUTTON	LENS
FXCS-0B30CL	FXCS-1B30-CL	FXCS-4B30-CL	1/2"		120V	Clear	Specify	
	FXCS-2B30-CL	FXCS-5B30-CL	3/4"					
FXCS-0B30GL	FXCS-1B30-GL	FXCS-4B30-GL	1/2"		120V	Green	Specify	
	FXCS-2B30-GL	FXCS-5B30-GL	3/4"					
FXCS-0B30RL	FXCS-1B30-RL	FXCS-4B30-RL	1/2"		120V	Red	Specify	
	FXCS-2B30-RL	FXCS-5B30-RL	3/4"					
FXCS-0B30RL-GL	FXCS-1B30RL-GL	FXCS-4B30RL-GL	1/2"		120V	Red/Green	Specify	
	FXCS-2B30RL-GL	FXCS-5B30RL-GL	3/4"					

FXCS MOMENTARY CONTACT PUSH BUTTON AND PILOT LIGHT

COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)		HUB SIZE	DIAGRAM	LAMP VOLTS	BUTTON COLOR	LENS COLOR	NAMEPLATE MARKING	
	DEAD-END	FEED-THRU						BUTTON	LENS
FXCS-0B13-C	FXCS-1B13-C	FXCS-4B13-C	1/2"		120V	Red	Clear	Stop	Specify
	FXCS-2B13-C	FXCS-5B13-C	3/4"						
FXCS-0B13-0	FXCS-1B13-0	FXCS-4B13-0	1/2"		120V	Green	Green	Start	Specify
	FXCS-2B13-0	FXCS-5B13-0	3/4"						
FXCS-0B13-U	FXCS-1B13-U	FXCS-4B13-U	1/2"		120V	Black	Red	Specify	Specify
	FXCS-2B13-U	FXCS-5B13-U	3/4"						

FXCS MOMENTARY CONTACT 2 MINI PUSH BUTTON AND 1 PILOT LIGHT

COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)		HUB SIZE	DIAGRAM	BUTTON COLOR	LENS COLOR	NAMEPLATE MARKING	
	DEAD-END	FEED-THRU					BUTTON	LENS
FXCS-0A15	FXCS-1A15	FXCS-4A15	1/2"		Red/Green	Red	Stop	Specify
	FXCS-2A15	FXCS-5A15	3/4"				Start	

FXCS MAINTAINED CONTACT - PUSH/PULL MUSHROOM

COVER ASSEMBLY CAT. #	CATALOG # WITH LOCKOUT #	CONTACT TYPE	BUTTON COLOR	NAMEPLATE MARKING
FXCS-OMMG3	FXCS-OMMR3-LOM	1NO/1NC	GREEN	Three nameplates supplied (START, STOP, and EMERG STOP).
FXCS-OMMR3		1NO/1NC	RED	
FXCS-OMMK3		1NO/1NC	BLACK	



CONTROLS FXCS SERIES

FACTORY SEALED CONTROL STATIONS



Selector Switch
(Box and Cover)



Keyed Selector Switch
(Box and Cover)

FXCS TWO POSITION SELECTOR SWITCH – MAINTAINED CONTACT

CATALOG NUMBER										LEFT POSITION		RIGHT POSITION		STANDARD NAMEPLATE MARKINGS
STANDARD COVER WITH DEVICE	HUB SIZE	STANDARD COMPLETE UNITS (BOX & COVER)		KEYED COVER WITH DEVICE	KEYED COMPLETE UNITS ² (BOX & COVER)		LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT	RIGHT CONTACT				
		DEAD-END	FEED-THRU		DEAD-END	FEED-THRU								
FXCS-0S2A1	1/2"	FXCS-1S2A1	FXCS-4S2A1	FXCS-0K2A1	FXCS-1K2A1	FXCS-4K2A1					BLANK or OFF-ON			
	3/4"	FXCS-2S2A1	FXCS-5S2A1		FXCS-2K2A1	FXCS-5K2A1								
FXCS-0S2A5	1/2"	FXCS-1S2A5	FXCS-4S2A5	FXCS-0K2A5	FXCS-1K2A5	FXCS-4K2A5								
	3/4"	FXCS-2S2A5	FXCS-5S2A5		FXCS-2K2A5	FXCS-5K2A5								

FXCS THREE POSITION SELECTOR SWITCH – MAINTAINED CONTACT

CATALOG NUMBER						LEFT POSITION		CENTER POSITION		RIGHT POSITION		STANDARD NAMEPLATE MARKINGS	
STANDARD COVER WITH DEVICE	HUB SIZE	STANDARD COMPLETE UNITS (BOX & COVER)		KEYED COVER WITH DEVICE	KEYED COMPLETE UNITS ² (BOX & COVER)		LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT		RIGHT CONTACT
		DEAD-END	FEED-THRU		DEAD-END	FEED-THRU							
FXCS-0S3C4	1/2"	FXCS-1S3C4	FXCS-4S3C4	FXCS-0K3C4	FXCS-1K3C4	FXCS-4K3C4							BLANK or HAND-OFF-AUTO
	3/4"	FXCS-2S3C4	FXCS-5S3C4		FXCS-2K3C4	FXCS-5K3C4							
FXCS-0S3C5	1/2"	FXCS-1S3C5	FXCS-4S3C5	FXCS-0K3C5	FXCS-1K3C5	FXCS-4K3C5							
	3/4"	FXCS-2S3C5	FXCS-5S3C5		FXCS-2K3C5	FXCS-5K3C5							

FXCS TWO POSITION SELECTOR SWITCH – SPRING RETURNED – 1 N.O./1 N.C.

CATALOG NUMBER						LEFT POSITION		RIGHT POSITION		STANDARD NAMEPLATE MARKINGS	
STANDARD COVER WITH DEVICE	HUB SIZE	STANDARD COMPLETE UNITS (BOX & COVER)		KEYED COVER WITH DEVICE	KEYED COMPLETE UNITS ² (BOX & COVER)		LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT		RIGHT CONTACT
		DEAD-END	FEED-THRU		DEAD-END	FEED-THRU					
FXCS-0S2L3F	1/2"	FXCS-1S2L3F	FXCS-4S2L3F	FXCS-0K2L3F22D	FXCS-1K2L3F22D	FXCS-4K2L3F22D					BLANK or OFF-ON
	3/4"	FXCS-2S2L3F	FXCS-5S2L3F		FXCS-2K2L3F22D	FXCS-5K2L3F22D					
TYPE OPERATION – Spring return to left from right – Maintained in left – 1 N.O. Contact – 1 N.C. Contact											

FXCS THREE POSITION SELECTOR SWITCH – SPRING RETURNED – 2 N.O.

CATALOG NUMBER						LEFT POSITION		CENTER POSITION		RIGHT POSITION		STANDARD NAMEPLATE MARKINGS	
STANDARD COVER WITH DEVICE	HUB SIZE	STANDARD COMPLETE UNITS (BOX & COVER)		KEYED COVER WITH DEVICE	KEYED COMPLETE UNITS ² (BOX & COVER)		LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT	RIGHT CONTACT	LEFT CONTACT		RIGHT CONTACT
		DEAD-END	FEED-THRU		DEAD-END	FEED-THRU							
FXCS-0S3M6G	1/2"	FXCS-1S3M6G	FXCS-4S3M6G	FXCS-0K3M6G32D	FXCS-1K3M6G32D	FXCS-4K3M6G32D							BLANK or HAND-OFF-AUTO
	3/4"	FXCS-2S3M6G	FXCS-5S3M6G		FXCS-2K3M6G32D	FXCS-5K3M6G32D	TYPE OPERATION – Spring return to center from left or right – Maintained in center – 2 N.O. Contacts						
FXCS-0S3L6G	1/2"	FXCS-1S3L6G	FXCS-4S3L6G	FXCS-0K3L6G32D	FXCS-1K3L6G32D	FXCS-4K3L6G32D							
	3/4"	FXCS-2S3L6G	FXCS-5S3L6G		FXCS-2K3L6G32D	FXCS-5K3L6G32D	TYPE OPERATION – Spring return to center from right – Maintained center and left 2 N.O. Contacts						
FXCS-0S3R6G	1/2"	FXCS-1S3R6G	FXCS-4S3R6G	FXCS-0K3R6G32D	FXCS-1K3R6G32D	FXCS-4K3R6G32D							
	3/4"	FXCS-2S3R6G	FXCS-5S3R6G		FXCS-2K3R6G32D	FXCS-5K3R6G32D	TYPE OPERATION – Spring return to center from left – Maintained center and right 2 N.O. Contacts						



FACTORY SEALED TUMBLER SWITCHES AND GROUND FAULT INTERRUPTER



**Tumbler Switch
Complete Unit
(Box and Cover)**



**Ground Fault Interrupter
Complete Unit
(Box and Cover)**



**UGRGF Series GFI
Control Station with
UGR Receptacle**

**Class I, Div. 1 & 2, Groups C, D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III
Type 3**

FXS Tumbler Switches

UL LISTED - File E53360 and/or File E10501

SP Certified - File LR11712

FXS Ground Fault Interrupters

UL LISTED - File E80595

SP Certified - File LR61895

FEATURES-SPECIFICATIONS

Features

- Test and Reset push buttons are provided on cover assembly. Unit should be tested monthly
- Compliant to UL943 GFCI standards
- Exterior gasket provides Type 3 weatherproof protection
- Ground boss for grounding in the splice box
- Color coded wiring
- Tumbler switch comes with capability to be locked out in OFF position as standard

Materials

- Captive cover bolts are made from stainless steel
- Device bodies are cast aluminum (less than 0.04 of 1% copper).

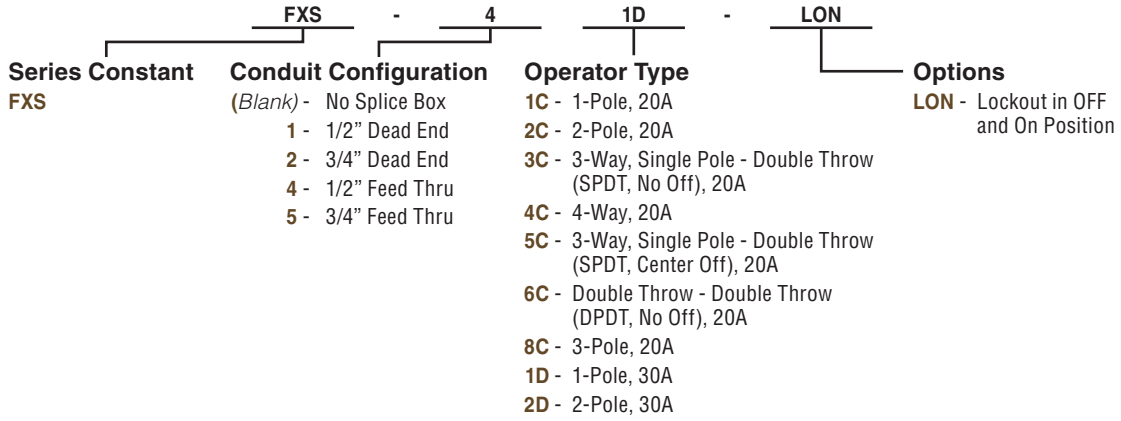
Electrical Rating

- GFI units are rated at 20A, 120 VAC, 60HZ. Class A.
- 4-6 milliamp trip setting
- Trip Time-UL Curve



CONTROLS
FXS SERIES

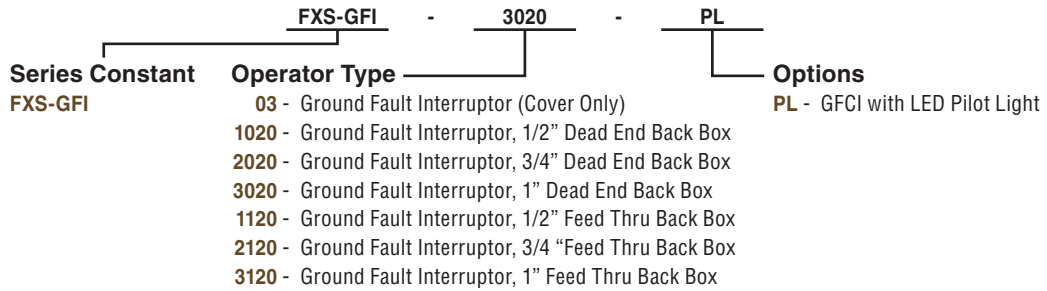
FACTORY SEALED TUMBLER SWITCHES - CATALOG LOGIC



FXS TUMBLER SWITCHES					
CATALOG NUMBER			HUB SIZE	SWITCH STYLE	SWITCH RATING
COMPLETE UNIT					
COVER WITH SWITCH	(BOX, COVER AND SWITCH)				
	DEAD-END	FEED-THRU			
FXS-1C	FXS-11C	FXS-41C	1/2"	1-POLE	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-21C	FXS-51C	3/4"		
FXS-2C	FXS-12C	FXS-42C	1/2"	2-POLE	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-22C	FXS-52C	3/4"		
FXS-8C	FXS-18C	FXS-48C	1/2"	3-POLE	15 A, 240/480 VAC, 3Ø; 3 HP at 240 VAC; 5 HP at 480 VAC
	FXS-28C	FXS-58C	3/4"		
FXS-3C	FXS-13C	FXS-43C	1/2"	3-WAY/ SPDT (NO OFF)	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-23C	FXS-53C	3/4"		
FXS-5C	FXS-15C	FXS-45C	1/2"	SPDT (CENTER OFF)	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-25C	FXS-55C	3/4"		
FXS-6C	FXS-16C	FXS-46C	1/2"	DPDT (NO OFF)	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-26C	FXS-56C	3/4"		
FXS-1D	FXS-11D	FXS-41D	1/2"	1-POLE	30 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-21D	FXS-51D	3/4"		
FXS-2D	FXS-12D	FXS-42D	1/2"	2-POLE	30 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
	FXS-22D	FXS-52D	3/4"		
FXS-4C	—	—	—	4-WAY	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC



GROUND FAULT INTERRUPTER - CATALOG LOGIC



FXS GROUND FAULT INTERRUPTER				
CATALOG NUMBER			HUB SIZE	
COMPLETE UNIT	COVER ASSEMBLY	BACK BOX		
FXS-GFI-1020	FXS-GFI03	FXB-1	DEAD END	1/2"
FXS-GFI-2020		FXB-2		3/4"
FXS-GFI-3020		FXB-3		1"
FXS-GFI-1120		FXB-4	FEED THRU	1/2"
FXS-GFI-2120		FXB-5		3/4"
FXS-GFI-3120		FXB-6		1"



CONTROLS
XCS/XS/XST/SWB SERIES

CONTROL STATIONS EXTERNAL SEALING REQUIRED



Class I, Div. 1 & 2, Groups C, D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III

 LISTED - File E53360

 Certified - File LR11714, LR11712

FEATURES-SPECIFICATIONS

Features

- Cast conduit hubs 1/2", 3/4" and 1" either dead end or feed thru standard in both single and two gang, SWB-1 thru SWB-12 device bodies
- SWB-13 thru SWB-38 are designed for custom drilled and tapped conduit openings on all four sides and the back
- Ground flange joint between bolted cover and box provide required flame path
- Open space between gangs for easy wiring from one cover to another
- Miniature and standard size push buttons. (Miniature 3/4" overall diameter, standard 1-3/8" overall diameter.)
- Contact blocks are rated heavy duty, 600 VAC max
- Internal ground screw
- Key operated selector switches are randomly keyed with keys removable in all positions. Keyed alike or key removable in non-standard positions available from factory.

Materials

- Device bodies and covers are cast copperfree Aluminum alloy and provide a wide assortment for custom assemblies
- Push button, selector switches and pilot light operator bodies are copper-free aluminum
- Operating shaft in both push buttons and selector switches are stainless steel
- Gold Flashed Contacts on Contact Blocks

Electrical Rating

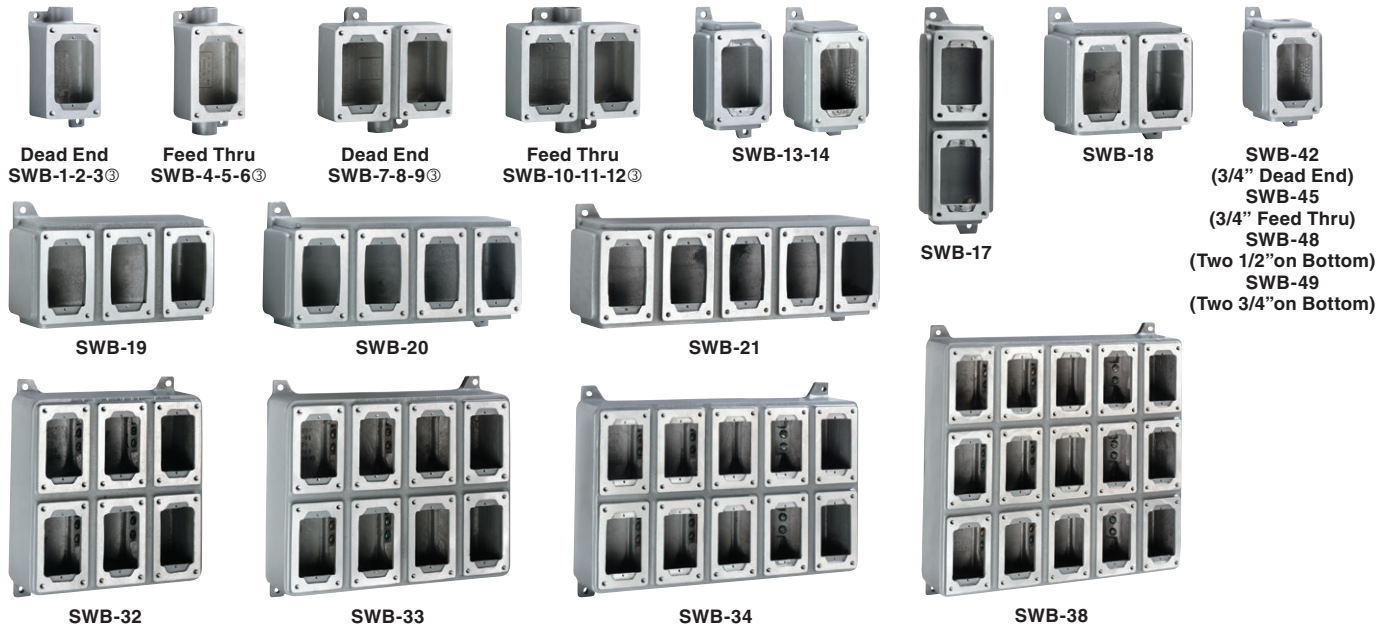
- Push button stations, selector switches heavy duty 600 VAC max.
- Pilot lights 250 VAC max.

CONTACT BLOCK RATINGS – A600				
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) – P600		
CURRENT	125 VAC	250 VAC
INRUSH	55	.27
BREAKING	55	.27
CARRYING	2.55	2.55



DEVICE BODIES FOR USE WITH XCS / XS / XST COVER ASSEMBLIES



SWB DEVICE BODIES AND DIMENSIONS

CATALOG NUMBER	HUB SIZE	EXTERNAL			MOUNTING	
		LENGTH	WIDTH	DEPTH	VERTICAL	HORIZONTAL
SWB-1	1/2"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-2	3/4"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-3	1"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-4	1/2"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-5	3/4"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-6	1"	5-7/8"(149)	3"(76)	2-1/4"(57)	5-3/8"(137)	2-3/8"(60)
SWB-7	1/2"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-8	3/4"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-9	1"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-10	1/2"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-11	3/4"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-12	1"	5-7/8"(149)	6-1/2"(165)	2-1/4"(57)	5-3/8"(137)	2-1/2"(64)
SWB-13	①	5-1/4"(133)	3-5/8"(92)	2-1/2"(64)	6-1/8"(156)	2-3/8"(60)
SWB-14	②	5-1/4"(133)	3-5/8"(92)	3-5/16"(84)	6-1/8"(156)	2-3/8"(60)
SWB-17	①	10-3/8"(264)	3-5/8"(92)	2-1/2"(64)	11-3/8"(289)	2-1/8"(54)
SWB-18	②	5-1/4"(133)	7-1/8"(181)	3-5/16"(84)	6"(152)	5-3/4"(146)
SWB-19	②	5-1/4"(133)	10-5/8"(270)	3-5/16"(84)	6"(152)	9-3/16"(233)
SWB-20	②	5-1/4"(133)	14-1/8"(359)	3-5/16"(84)	6"(152)	12-11/16"(322)
SWB-21	②	5-1/4"(133)	17-5/8"(448)	3-5/16"(84)	6"(152)	16-3/16"(411)
SWB-32	②	12"(305)	10-5/8"(270)	3-5/16"(84)	11-1/8"(283)	9-3/16"(233)
SWB-33	②	10-3/8"(264)	14-1/8"(359)	3-5/16"(84)	11-3/16"(284)	12-3/4"(324)
SWB-34	②	12"(305)	17-3/4"(451)	3-5/16"(84)	11-5/16"(287)	16-1/4"(413)
SWB-38	②	17-1/8"(435)	17-3/4"(451)	3-5/16"(84)	11-5/16"(287)	16-1/4"(413)
SWB-42	3/4"	5-1/4"(133)	3-5/8"(92)	3-5/16"(84)	6-1/8"(156)	2-3/8"(60)
SWB-45	3/4"	5-1/4"(133)	3-5/8"(92)	3-5/16"(84)	6-1/8"(156)	2-3/8"(60)
SWB-48	1/2" ②	5-1/4"(133)	3-5/8"(92)	3-5/16"(84)	6-1/8"(156)	2-3/8"(60)
SWB-49	3/4" ②	5-1/4"(133)	3-5/8"(92)	3-5/16"(84)	6-1/8"(156)	2-3/8"(60)

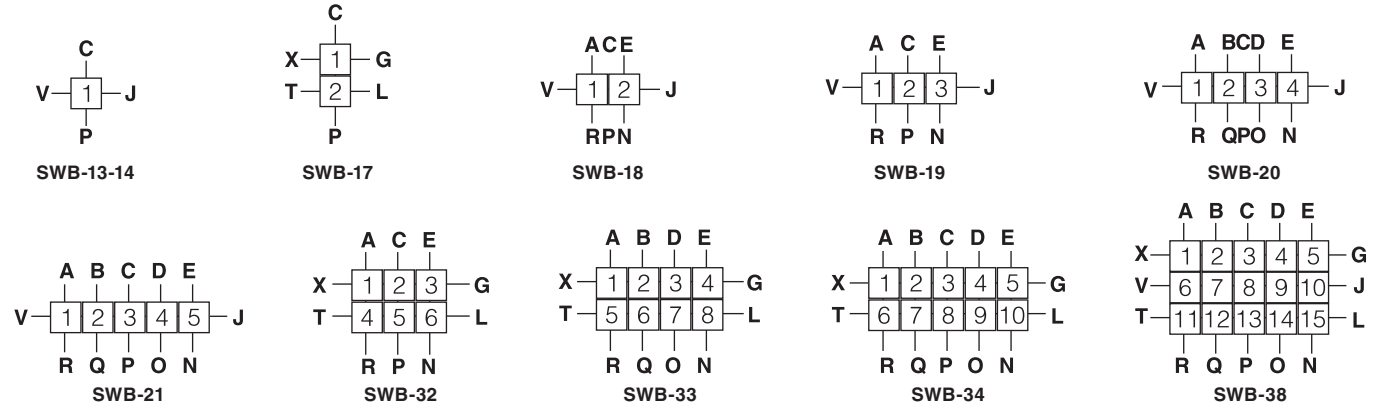
① Maximum size drilled and tapped opening 1" – Shallow device bodies.
 ② Maximum size drilled and tapped opening 1-1/2" – Deep device bodies.



CONTROLS SWB SERIES

CONDUIT OPENING DATA

CONDUIT OPENING LOCATION CHARTS



To specify conduit openings select the letter on these sketches which indicates the position desired. All conduit openings will be evenly spaced and located in the area indicated on the location chart. When they are to be more accurately located, submit a sketch with spacing dimensions. Specific conduit openings must be located dimensionally from box centerlines to conduit centerlines and from outside back surface of box to conduit centerline.

Ordering Instructions:

- (1) Select the letter on location chart which indicates conduit opening position desired.
- (2) Select symbol number from chart which indicates conduit opening type and size.
- (3) Combine the conduit location letter, size and type number, and add as a suffix to SWB box catalog number.

Example: **SWB-18-C1-J1-P1-V1**

SYMBOL NUMBERS		
CONDUIT SIZE	CONDUIT OPENINGS	
	DRILLED AND TAPPED	UNION
1/2"	1	11
3/4"	2	12
1"	3	13
1-1/4"	4	14
1-1/2"	5	15

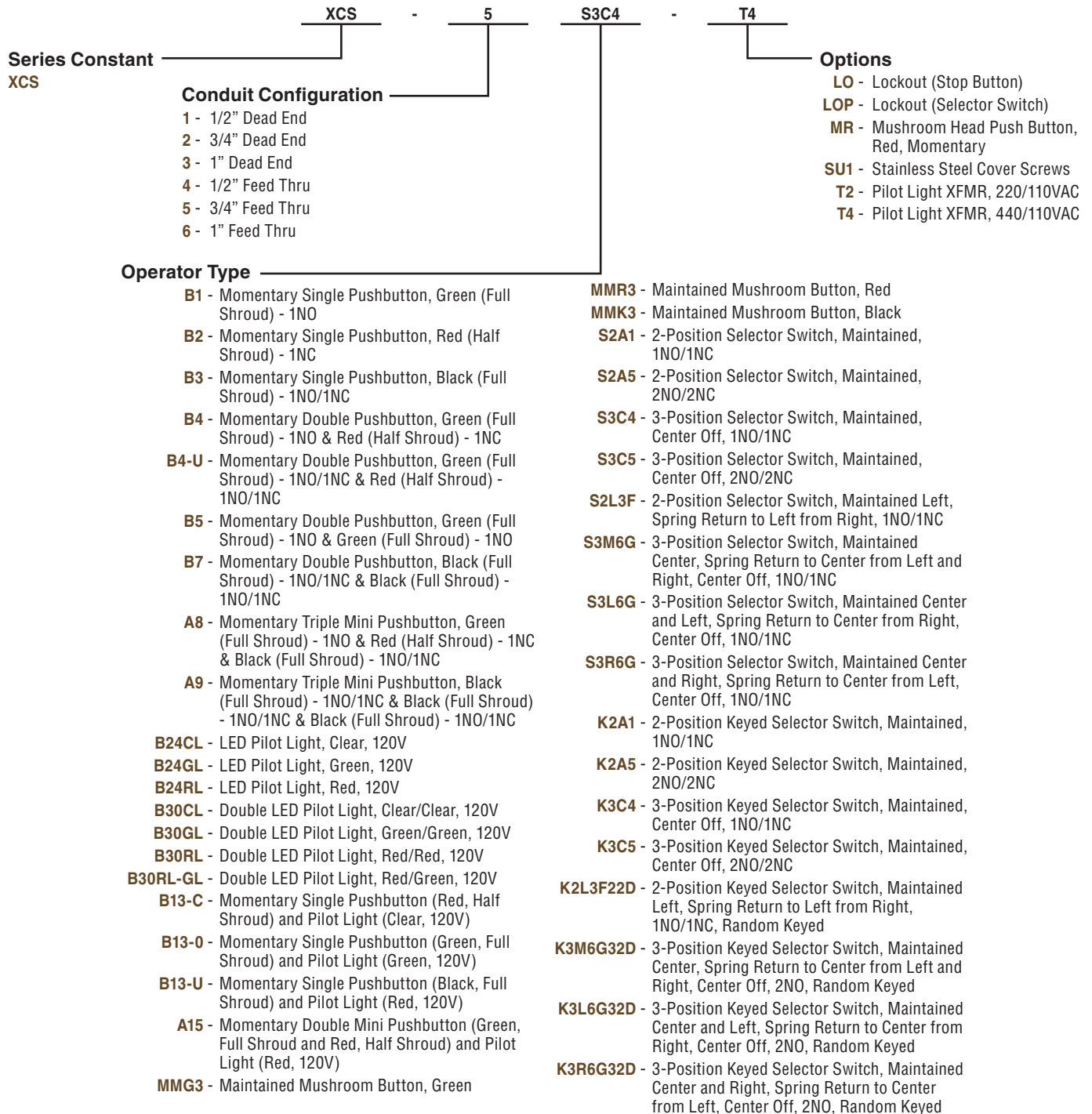
MINIMUM HUB CENTERS FOR DRILLED AND TAPPED AND UNION HUBS

SIZE	FORM	1/2"	3/4"	1"	1-1/4"	1-1/2"
1/2"	Min	1-3/16"(46)	—	—	—	—
1/2"	Pre	1-3/8"(35)	—	—	—	—
1/2"	Union	1-5/8"(41)	—	—	—	—
3/4"	Min	1-3/8"(35)	1-1/2"(38)	—	—	—
3/4"	Pre	1-1/2"(38)	1-5/8"(41)	—	—	—
3/4"	Union	1-3/4"(44)	1-13/16"(46)	—	—	—
1"	Min	1-1/2"(38)	1-3/4"(44)	1-13/16"(46)	—	—
1"	Pre	1-3/4"(44)	1-7/8"(48)	2"(51)	—	—
1"	Union	1-7/8"(48)	2"(51)	2-1/8"(54)	—	—
1-1/4"	Min	1-11/16"(43)	1-15/16"(49)	2-1/16"(52)	2-5/16"(59)	—
1-1/4"	Pre	1-15/16"(49)	2-1/16"(52)	2-1/4"(57)	2-1/2"(64)	—
1-1/4"	Union	2-1/16"(52)	2-1/4"(57)	2-5/16"(59)	2-1/2"(64)	—
1-1/2"	Min	1-15/16"(49)	2-1/16"(52)	2-3/16"(56)	2-1/2"(64)	2-5/8"(67)
1-1/2"	Pre	2-1/8"(54)	2-1/4"(57)	2-3/8"(60)	2-5/8"(67)	2-3/4"(70)
1-1/2"	Union	2-3/16"(56)	2-9/32"(58)	7/16"(11)	2-5/8"(67)	2-3/4"(70)
Locknut Bushing Conduit		1-1/8"(29)	1-3/8"(35)	1-11/16"(43)	2-3/16"(56)	2-7/16"(62)
Locknut Bushing Conduit		1"(25)	1-1/4"(32)	1-1/2"(38)	1-7/8"(48)	2-1/8"(54)
Locknut Bushing Conduit		7/8"(22)	1-1/16"(27)	1-3/8"(35)	1-11/16"(43)	1-15/16"(49)

Min: The minimum space required to provide enough clearance over locknuts and bushings.
Pre: The preferred more liberal center to center spacing of openings. To be used whenever possible.
Union: The required spacing between openings when using male NPT unions.



CONTROL STATION ASSEMBLIES - CATALOG LOGIC





CONTROLS XCS SERIES

CONTROL STATIONS EXTERNAL SEALING REQUIRED



Single Push Button
(Box and Cover)



Double Push Button
(Box and Cover)



Three Mini-Push Button
(Box and Cover)



Push-Pull Mushroom Maintained Push Button
(Box and Cover)

XCS MOMENTARY CONTACT SINGLE PUSH BUTTON

COVER WITH DEVICE	CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING
	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
XCS-0B1	XCS-1B1	XCS-4B1	1/2"		Green	Start
	XCS-2B1	XCS-5B1	3/4"			
XCS-0B2	XCS-1B2	XCS-4B2	1/2"		Red	Stop
	XCS-2B2	XCS-5B2	3/4"			
XCS-0B3	XCS-1B3	XCS-4B3	1/2"		Black	Specify
	XCS-2B3	XCS-5B3	3/4"			

XCS MOMENTARY CONTACT DOUBLE PUSH BUTTON

COVER WITH DEVICE	CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING
	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
XCS-0B4	XCS-1B4	XCS-4B4	1/2"		Green-Red	Start/Stop
	XCS-2B4	XCS-5B4	3/4"			
XCS-0B4-U	XCS-1B4-U	XCS-4B4-U	1/2"		Green-Red	Start/Stop
	XCS-2B4-U	XCS-5B4-U	3/4"			
XCS-0B5	XCS-1B5	XCS-4B5	1/2"		Green-Green	Start/Start
	XCS-2B5	XCS-5B5	3/4"			
XCS-0B7	XCS-1B7	XCS-4B7	1/2"		Black-Black	Specify
	XCS-2B7	XCS-5B7	3/4"			

XCS MOMENTARY CONTACT THREE MINI-PUSH BUTTON

COVER WITH DEVICE	CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING
	COMPLETE UNITS (BOX & COVER)					
	DEAD-END	FEED-THRU				
XCS-0A8	XCS-1A8	XCS-4A8	1/2"		Green-Red	Start/Stop
	XCS-2A8	XCS-5A8	3/4"			
XCS-0A9	XCS-1A9	XCS-4A9	1/2"		Black	Specify
	XCS-2A9	XCS-5A9	3/4"			

XCS MAINTAINED CONTACT PUSH PULL MUSHROOM PUSH BUTTON

CATALOG NUMBER (COVER WITH DEVICE)	DIAGRAM	BUTTON COLOR	NAMEPLATE MARKING
XCS-0MMG3		GREEN	Three nameplates supplied (START, STOP, and EMERG STOP).
XCS-0MMR3		RED	
XCS-0MMK3		BLACK	



CONTROL STATIONS EXTERNAL SEALING REQUIRED



Pilot Light
(Box and Cover)



Double
Pilot Light
(Box and Cover)



Pilot Light
Push Button
(Box and Cover)



Pilot Light
Two Mini Push Buttons
(Box and Cover)

XCS PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	LAMP VOLTS	LENS COLOR	NAMEPLATE MARKING	
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)						
	DEAD-END	FEED-THRU					
XCS-0B24-CL	XCS-1B24-CL	XCS-4B24-CL	1/2"		120V	Clear	Specify
	XCS-2B24-CL	XCS-5B24-CL	3/4"				
XCS-0B24-GL	XCS-1B24-GL	XCS-4B24-GL	1/2"		120V	Green	Specify
	XCS-2B24-GL	XCS-5B24-GL	3/4"				
XCS-0B24-RL	XCS-1B24-RL	XCS-4B24-RL	1/2"		120V	Red	Specify
	XCS-2B24-RL	XCS-5B24-RL	3/4"				

XCS DOUBLE PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	LAMP VOLTS	LENS COLOR	NAMEPLATE MARKING	
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)						
	DEAD-END	FEED-THRU					
XCS-0B30-CL	XCS-1B30-CL	XCS-4B30-CL	1/2"		120V	Clear	Specify
	XCS-2B30-CL	XCS-5B30-CL	3/4"				
XCS-0B30-GL	XCS-1B30-GL	XCS-4B30-GL	1/2"		120V	Green	Specify
	XCS-2B30-GL	XCS-5B30-GL	3/4"				
XCS-0B30-RL	XCS-1B30-RL	XCS-4B30-RL	1/2"		120V	Red	Specify
	XCS-2B30-RL	XCS-5B30-RL	3/4"				
XCS-0B30RL-GL	XCS-1B30RL-GL	XCS-4B30RL-GL	1/2"		120V	Red/Green	Specify
	XCS-2B30RL-GL	XCS-5B30RL-GL	3/4"				

XCS MOMENTARY CONTACT PUSH BUTTON AND PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LENS COLOR	NAMEPLATE MARKING		
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)					BUTTON	LENS	
	DEAD-END	FEED-THRU						
XCS-0B13-C	XCS-1B13-C	XCS-4B13-C	1/2"		Red	Red	Stop	Specify
	XCS-2B13-C	XCS-5B13-C	3/4"					
XCS-0B13-0	XCS-1B13-0	XCS-4B13-0	1/2"		Green	Red	Start	Specify
	XCS-2B13-0	XCS-5B13-0	3/4"					
XCS-0B13-U	XCS-1B13-U	XCS-4B13-U	1/2"		Black	Red	Specify	Specify
	XCS-2B13-U	XCS-5B13-U	3/4"					

XCS MOMENTARY CONTACT TWO MINI PUSH BUTTONS AND PILOT LIGHT

CATALOG NUMBER		HUB SIZE	DIAGRAM	BUTTON COLOR	LENS COLOR	NAMEPLATE MARKING		
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)					BUTTON	LENS	
	DEAD-END	FEED-THRU						
XCS-0A15	XCS-1A15	XCS-4A15	1/2"		Red	Red	Stop	Specify
	XCS-2A15	XCS-5A15	3/4"					
			120 VAC	Green			Start	



CONTROLS
XCS SERIES

CONTROL STATIONS EXTERNAL SEALING REQUIRED



Selector Switch



Key Operated

XCS TWO POSITION SELECTOR SWITCH (MAINTAINED)

CATALOG NUMBER			HUB SIZE	TWO POSITION DIAGRAM				NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	
XCS-0S2A1	XCS-1S2A1	XCS-4S2A1	1/2"					OFF/ON
	XCS-2S2A1	XCS-5S2A1	3/4"					
XCS-0S2A5	XCS-42S2A5	XCS-45S2A5	3/4"					OFF/ON

XCS THREE POSITION SELECTOR SWITCH (MAINTAINED)

CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	
XCS-0S3C4	XCS-1S3C4	XCS-4S3C4	1/2"							HAND-OFF-AUTO
	XCS-2S3C4	XCS-5S3C4	3/4"							
XCS-0S3C5	XCS-42S3C5	XCS-45S3C5	3/4"							HAND-OFF-AUTO

XCS TWO POSITION KEY OPERATED SELECTOR SWITCH (MAINTAINED)

CATALOG NUMBER			HUB SIZE	TWO POSITION DIAGRAM				NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	
XCS-0K2A1	XCS-1K2A1	XCS-4K2A1	1/2"					OFF/ON
	XCS-2K2A1	XCS-5K2A1	3/4"					
XCS-0K2A5	XCS-42K2A5	XCS-45K2A5	3/4"					OFF/ON

XCS THREE POSITION KEY OPERATED SELECTOR SWITCH (MAINTAINED)

CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	LEFT BLOCKS	RIGHT BLOCKS	
XCS-0K3C4	XCS-1K3C4	XCS-4K3C4	1/2"							HAND-OFF-AUTO
	XCS-2K3C4	XCS-5K3C4	3/4"							
XCS-0K3C5	XCS-42K3C5	XCS-45K3C5	3/4"							HAND-OFF-AUTO



CONTROL STATIONS EXTERNAL SEALING REQUIRED



Selector Switch

XCS SPRING RETURN SELECTOR SWITCH – TWO POSITION SPRING RETURN TO LEFT

CATALOG NUMBER			HUB SIZE	TWO POSITION DIAGRAM – 1N.O./1N.C.				NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0S2L3F	XCS-42S2L3F	XCS-45S2L3F	3/4"					OFF-ON

XCS SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM RIGHT AND LEFT

CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0S3M6G	XCS-42S3M6G	XCS-45S3M6G	3/4"							HAND-OFF-AUTO

XCS SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM RIGHT, MAINTAIN IN LEFT

CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0S3L6G	XCS-42S3L6G	XCS-45S3L6G	3/4"							HAND-OFF-AUTO

XCS SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM LEFT, MAINTAIN IN RIGHT

CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0S3R6G	XCS-42S3R6G	XCS-45S3R6G	3/4"							HAND-OFF-AUTO



CONTROLS
XCS SERIES

CONTROL STATIONS EXTERNAL SEALING REQUIRED



Key Operated

XCS KEY OPERATED SPRING RETURN SELECTOR SWITCH – TWO POSITION SPRING RETURN TO LEFT								
CATALOG NUMBER			HUB SIZE	TWO POSITION DIAGRAM – 1 N.O./1 N.C.				NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0K2L3F22D	XCS-42K2L3F22D	XCS-45K2L3F22D	3/4"					OFF-ON

XCS KEY OPERATED SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM RIGHT AND LEFT										
CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0K3M6G32D	XCS-42K3M6G32D	XCS-45K3M6G32D	3/4"							HAND-OFF-AUTO

XCS KEY OPERATED SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM RIGHT, MAINTAIN IN LEFT										
CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0K3L6G32D	XCS-42K3L6G32D	XCS-45K3L6G32D	3/4"							HAND-OFF-AUTO

XCS KEY OPERATED SPRING RETURN SELECTOR SWITCH – THREE POSITION SPRING RETURN TO CENTER FROM LEFT, MAINTAIN IN RIGHT										
CATALOG NUMBER			HUB SIZE	THREE POSITION DIAGRAM – 2 N.O.						NAMEPLATE MARKING
COVER WITH DEVICE	COMPLETE UNITS (BOX & COVER)			LEFT POSITION		CENTER POSITION		RIGHT POSITION		
	DEAD-END	FEED-THRU		LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	LEFT BLOCK	RIGHT BLOCK	
XCS-0K3R6G32D	XCS-42K3R6G32D	XCS-45K3R6G32D	3/4"							HAND-OFF-AUTO



BLANK ACCESSORIES / REPLACEMENT PARTS



REPLACEMENT XCS COVER INTERIORS SUPPLIED WITH MOUNTING HARDWARE

KIT-62	Interior Device XCS-0A8
KIT-63	Interior Device XCS-0A9
KIT-64	Interior Device XCS-0A15
KIT-66	Interior Device XCS-0B1
KIT-67	Interior Device XCS-0B2
KIT-68	Interior Device XCS-0B3
KIT-69	Interior Device XCS-0B4
KIT-70	Interior Device XCS-0B5
KIT-72	Interior Device XCS-0B7
KIT-73	Interior Device XCS-0B13-C
KIT-74	Interior Device XCS-0B13-0
KIT-75	Interior Device XCS-0B13-U
KIT-76	Interior Device XCS-0B24
KIT-78	Interior Device XCS-0B30

X BLANK AND SPECIAL COVERS	
CAT. NO.	DESCRIPTION
X-10	Blank cover for SWB
X-60	Cover with (1) 3/4" NPSM Hole ^①
X-64	Cover with (2) 3/4" NPSM Holes ^{①②}

XS REPLACEMENT SWITCH ONLY	
CAT. NO.	DESCRIPTION
KIT-264	Replacement switch for XS-1C
KIT-266	Replacement switch for XS-2C
KIT-263	Replacement switch for XS-6C
KIT-265	Replacement switch for XS-8C

^① For Short length operators.
^② When X-64 cover is used, one operator must be a pilot light due to electrical clearances.

Kits supplied with contacts and lamp sockets mounted to strap for installation on SWB back box.



ACCESSORIES					
CATALOG NUMBER					DESCRIPTION
PUSH BUTTON LOCKOUT ^①	SELECTOR LOCKOUT	DUST/WEATHER CAP			
		RED	GREEN	BLACK	
XLOB	G0567-LOK	XDBR	XDBG	XDBB	Standard operator
XLOA	—	—	—	—	Miniature operator

^① Must be factory installed

CATALOG NUMBER GOMLOCK LOCKOUT FOR MAINTAINED PUSH BUTTON COVERS	
XCS-OMMR3	
FXCS-OMMR3, FXCS - *MMR3-M	

XCS REPLACEMENT COVER SCREWS	
CATALOG NUMBER	DESCRIPTION
00891896	4 Cover Screws
00891898	4 Cover Screws and 2 Strap Screws



CONTROLS XCS SERIES

ACCESSORIES / REPLACEMENT PARTS

CUSTOM LEGEND PLATES (MOUNTING SCREWS INCLUDED)		
CATALOG NUMBER & DESCRIPTION		
PB & PL LEGEND PLATES	2 POS. SEL. SWT. LEGEND PLATES	3 POS. SEL. SWT. LEGEND PLATES
XCSNP-ON	XCSNP-ON-OFF	XCSNP-HAND-OFF-AUT
XCSNP-OFF	XCSNP-OFF-ON	XCSNP-AUT-OFF-HAND
XCSNP-START	XCSNP-OFF-REMOTE	XCSNP-HAND-OFF-REM
XCSNP-STOP	XCSNP-START-STOP	XCSNP-STP-RUN-STRT
XCSNP-ESTOP	XCSNP-UP-DOWN	XCSNP-FWD-OFF-REV
XCSNP-UP	XCSNP-RAISE-LOWER	XCSNP-REV-OFF-FWD
XCSNP-DOWN	XCSNP-HIGH-LOW	XCSNP-RUN-OFF-JOG
XCSNP-FAST	XCSNP-SLOW-FAST	XCSNP-JOG-OFF-RUN
XCSNP-SLOW	XCSNP-START-JOG	XCSNP-SLOW-OFF-FST
XCSNP-IN	XCSNP-RUN-JOG	XCSNP-LOW-OFF-HIGH
XCSNP-OUT	XCSNP-JOG-RUN	XCSNP-RAS-OFF-LOWR
XCSNP-RAISE	XCSNP-FWD-REV	XCSNP-LOCL-OFF-REM
XCSNP-LOWER	XCSNP-HAND-AUTO	XCSNP-1-OFF-2
XCSNP-HIGH	XCSNP-AUTO-HAND	XCSNP-UP-OFF-DOWN
XCSNP-LOW	XCSNP-MANUAL-AUTO	XCSNP-BLANK-3P*
XCSNP-OPEN	XCSNP-SLOW-FAST	
XCSNP-CLOSE	XCSNP-OPEN-CLOSE	
XCSNP-FORWARD	XCSNP-BLANK-2P*	
XCSNP-REVERSE		
XCSNP-READY		
XCSNP-RUN		
XCSNP-RESET		
XCSNP-JOG		
XCSNP-INCH		
XCSNP-TEST		
XCSNP-POWER-ON		
XCSNP-JOG-FORWARD		
XCSNP-JOG-REVERSE		
XCSNP-MOTOR-RUN		
XCSNP-MOTOR-STOP		
XCSNP-PUSH-TO-TEST		
XCSNP-BLANK*		

1-3/8"

Drilling Instructions
(if holes not existing)
Drill #44(.086 Dia)
x 3/16 deep. Do not break
through cover.
Install with thread cutting
screws supplied.

* For special markings order blank legend plate and specify marking.



Finger Safe Contact Block



LED Lamps

PILOT LIGHT LED LAMPS (FOR GO SERIES OPERATORS AND XCS/ FXCS CONTROL STATIONS)

CATALOG NUMBER	VOLTS	COLOR
GOLED-A110	110 VAC/DC	Amber
GOLED-B110	110 VAC/DC	Blue
GOLED-G110	110 VAC/DC	Green
GOLED-R110	110 VAC/DC	Red
GOLED-W110	110 VAC/DC	White
GOLED-W24	24 VAC/DC	White
GOLED-W240	220/240 VAC	White

GO STANDARD CONTACT BLOCKS

CATALOG NUMBER	DESCRIPTION	COLOR CODE
GO-8673-BJK	1 N.O.	WHITE
GO-8673-BJJ	1 N.C.	RED
GO-8673-BJH	1 N.O. Early make	GREEN
GO-8673-BJE	1 N.C. Late break	YELLOW
GO-8673-BJKJ	1 N.O./1 N.C.	BLACK



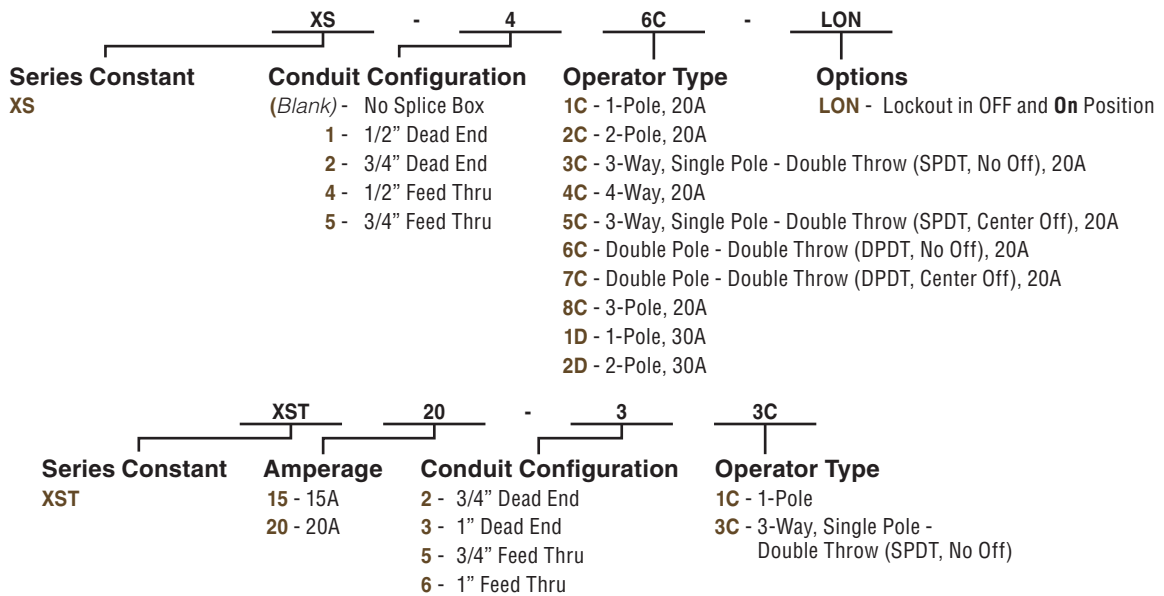
TUMBLER SWITCH



Class I, Div. 1 & 2, Groups C, D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III

UL LISTED - FILE E53360

SP Certified - File LR11712





CONTROLS
XS/XST SERIES

TUMBLER SWITCH

XS and XST Series are front lever rotary operated switch assemblies with standard provisions for padlocking in the "OFF" position. The lever is connected to a threaded stainless steel shaft which passes through the cover.

XS TUMBLER SWITCH						
CATALOG NUMBER					SWITCH STYLE	SWITCH RATING
COVER		HUB SIZE	COMPLETE UNITS (BOX, COVER AND SWITCH)			
WITH DEVICE	WITHOUT DEVICE		DEAD-END	FEED-THRU		
XS-1C	XNS-1C	1/2"	XS-11C	XS-41C	1-POLE	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-21C	XS-51C		
XS-2C	XNS-2C	1/2"	XS-12C	XS-42C	2-POLE	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-22C	XS-52C		
XS-8C	XNS-8C	1/2"	XS-18C	XS-48C	3-POLE	15 A, 240/480 VAC, 3Ø; 3 HP at 240 VAC; 5 HP at 480 VAC
		3/4"	XS-28C	XS-58C		
XS-3C	XNS-3C	1/2"	XS-13C	XS-43C	3-WAY/ SPDT NO CENTER OFF	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-23C	XS-53C		
XS-5C	XNS-5C	1/2"	XS-15C	XS-45C	SPDT CENTER OFF	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-25C	XS-55C		
XS-6C	XNS-6C	1/2"	XS-16C	XS-46C	DPDT NO CENTER OFF	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-26C	XS-56C		
XS-7C	XNS-7C	1/2"	XS-17C	XS-47C	DPDT CENTER OFF	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-27C	XS-57C		
XS-1D	XNS-1D	1/2"	XS-11D	XS-41D	1-POLE	30 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-21D	XS-51D		
XS-2D	XNS-2D	1/2"	XS-12D	XS-42D	2-POLE	30 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC
		3/4"	XS-22D	XS-52D		
XS-4C	—	—	—	—	4-WAY	20 A, 120/277 VAC, 1Ø; 1 HP at 120 VAC; 2 HP at 240 VAC

XST TUMBLER SWITCH				
HUB SIZE	CATALOG NUMBER		SWITCH STYLE	SWITCH RATING 347 VAC, 1Ø
	COMPLETE UNITS (BOX, COVER AND SWITCH)			
	DEAD-END	FEED-THRU		
3/4"	XST15-21C	XST15-51C	1-POLE	15A
1"	XST15-31C	XST15-61C		
3/4"	XST20-21C	XST20-51C	1-POLE	20A
1"	XST20-31C	XST20-61C		
3/4"	XST15-23C	XST15-53C	3-WAY/SPDT NO CENTER OFF	15A
1"	XST15-33C	XST15-63C		
3/4"	XST20-23C	XST20-53C	3-WAY/SPDT NO CENTER OFF	20A
1"	XST20-33C	XST20-63C		



FIRE ALARM STATIONS



XAL
Pull Ring



XAS
Break Glass

Class I, Div. 1 & 2, Groups C, D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III

XAL Series:

LISTED - File E50498

Certified - File LR31085

XAS Series:

LISTED - File E50498

Certified - File LR31085

FEATURES-SPECIFICATIONS

Features

- Conduit openings are 3/4" NPT feed through
- Red, textured powder epoxy paint finish is standard on box and cover and provides high visibility for alarm station
- XAL-458 has (2) normally open and (2) normally closed contacts.
- Bilingual nameplates included per CSA requirement
- Internal ground screw is standard
- **XAL:** The alarm station is activated by lifting the front cover and pulling down ring. This quick, easy to use two-step process prevents unintentional operation.
- **XAS:** Breaking glass with hammer provided activates alarm. Reset by replacing glass.

Materials

- Enclosure is made of copper free aluminum alloy
- XAS Lens – Glass
- External Hardware – Stainless Steel

Electrical Rating

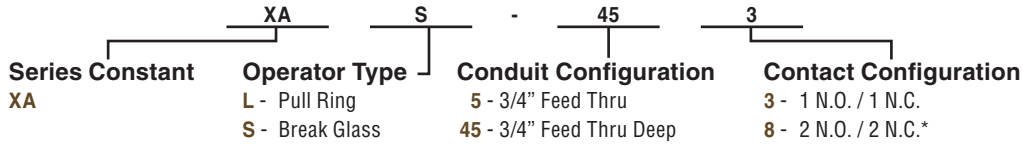
- Push button stations, selector switches heavy duty 600 VAC max.
- Pilot lights 250 VAC max.

CONTACT BLOCK RATINGS – A600				
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) – P600				
CURRENT	125 VAC	250 VAC		
INRUSH	55	.27		
BREAKING	55	.27		
CARRYING	2.55	2.55		



CONTROLS XAL/XAS SERIES

FIRE ALARM STATIONS



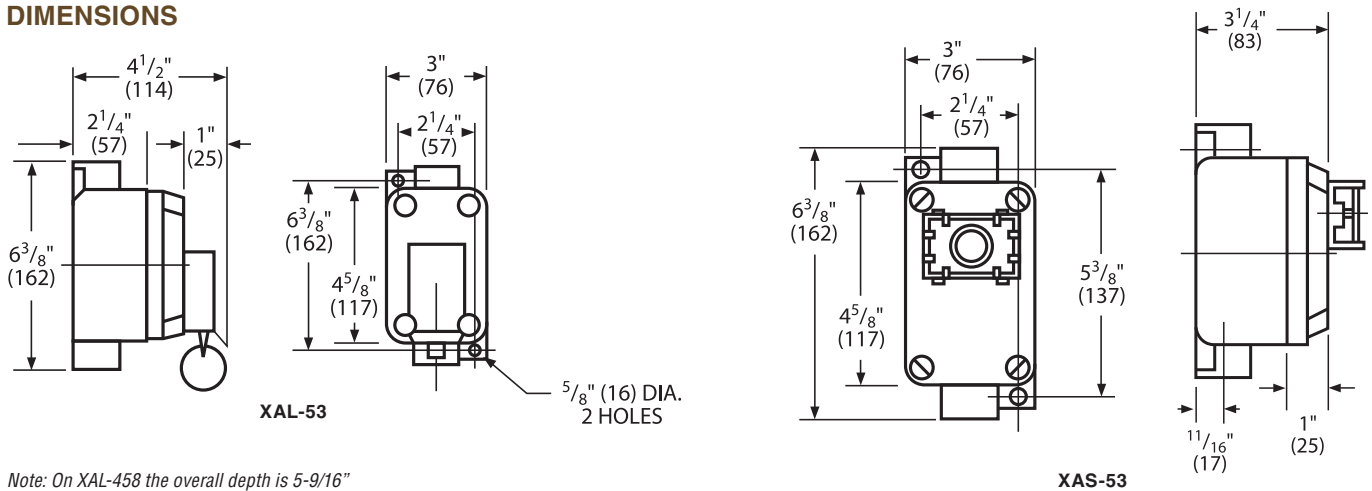
* 2 N.O. / 2 N.C. selection only available with deep back box

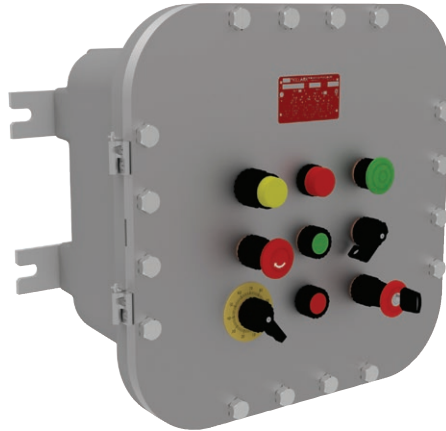
REPLACEMENT PARTS	
CATALOG NUMBER	DESCRIPTION
YOKK15214	XAS Repl. Glass
KIT-232	XAS Rep. Hammer & Chain

XAL FIRE ALARM STATION		
CATALOG NUMBER	OPERATION TYPE	CONTACT BLOCKS
XAL-53	Pull ring	(1) NO/NC
XAL-458	Pull ring	(2) NO/NC
XAS-53	Break glass	(1) NO/NC

CONTACT BLOCK RATING								
AC					DC			
VOLTS	MAKE AMPERES	VA	BREAK AMPERES	VA	CONTINUOUS CARRYING AMPERES	VOLTS	MAKE BREAK	CONTINUOUS CARRYING AMPERES
120	60	7200	6	720	10	125	1.1	5.0
240	30	7200	3	720	10	250	0.55	5.0
480	15	7200	1.5	720	10	600	0.2	5.0
600	12	7200	1.2	720	10	—	—	—

DIMENSIONS





AREA CLASSIFICATION

North American Standards:
Class I, Div 1, Groups B, C, D
Class II, Div 1, Groups E, F, G
Class III
Type 4X

UL US LISTED - File Number E12379

IECEX/ATEX Ratings:

II 2G Ex db IIC Gb
II 2D Ex tb IIIC Db
IP66

Ambient Operating Temperature:
-50°C to 100°C

UL UL 22 ATEX 2920U

UL IECEx ULBR 22.0006U

FEATURES-SPECIFICATIONS

Features

- Operators available in 3/4"-14 NPSM and M22 x 1.5 Metric threads.
- Available in the following bushing lengths:
 - » Short = 0.98" (25mm)
 - » Long = 1.57" (40mm)
 - » Extended = 2.24" (57mm)
 - » 2XL = 2.62" (67mm)
- Easy locking contact block for quick installation.
- Stackable standard contact blocks (non-rotary switch type).
- LED Pilot Light lamps as standard.
- Momentary Push Buttons
- LED Pilot Lights
- Illuminated Push Buttons
- Mushroom Head Push Buttons
- Keyed and Non-Keyed Rotary Selector Switches
- Potentiometers

Materials

- Bushings – Aluminum
- External Hardware – Stainless Steel

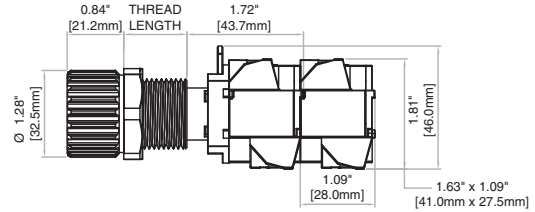
Electrical Ratings

PUSH BUTTON SWITCH ELECTRICAL RATINGS		
RATED VOLTAGE = 500 VAC / 220 VDC – RATED CURRENT = 10 A		
UTILIZATION CATEGORY	VOLTAGE	CURRENT
AC-15 (Electromagnetic Load)	220 VAC	10 A
	380 VAC	7.5 A
	500 VAC	5 A
DC-13 (Electromagnetic Load)	24 VDC	2.75 A
	60 VDC	1.10 A
	110 VDC	0.55 A
	220 VDC	0.27 A
PILOT LIGHT AND ILLUMINATED PUSH BUTTON SWITCH ELECTRICAL RATINGS		
PILOT LIGHT RATED VOLTAGE = 480 VAC / 120 VDC		
MAXIMUM WATTAGE = 2.6 W – RATED CURRENT = 12 MA		
ILLUMINATED PILOT LIGHT RATED VOLTAGE = 240 VAC / 120 VDC – MAXIMUM WATTAGE = 2.6 W		
PUSH BUTTON SWITCH RATED VOLTAGE = 250 VAC / 24 VDC		
UTILIZATION CATEGORY	VOLTAGE	CURRENT
AC-15 (Electromagnetic Load)	250 VAC	6 A
DC-13 (Electromagnetic Load)	24 VDC	3 A
ROTARY SWITCH ELECTRICAL RATINGS		
RATED VOLTAGE = 690 VAC / 110 VDC – RATED CURRENT = 20 A		
UTILIZATION CATEGORY	VOLTAGE	CURRENT / WATTAGE
AC-3 (Squirrel Cage Motors)	220-240 VAC	3.0 kW
	380-440 VAC	5.5 kW
AC-15 (Electromagnetic Load)	220-240 VAC	5 A
	380-440 VAC	4 A
AC-22A (Mixed Resistive and Inductive Loads, including Small Overloads)	220-240 VAC	20 A
	380-440 VAC	20 A
AC-23A (Motors or Highly Inductive Loads)	220-240 VAC	3.7 kW
	380-440 VAC	7.5 kW
	24 VDC	20 A
	48 VDC	12 A
DC - Resistive Loads (T < 1 ms)	60 VDC	4.5 A
	110 VDC	1 A
	24 VDC	12 A
	48 VDC	2 A
DC - Inductive Loads (T = 50 ms)	60 VDC	1 A
	110 VDC	0.4 A



CONTROLS GZ SERIES

PUSH BUTTON CONTROLS MOMENTARY



GZ21, GZ1, GZL1, GZXL1

GZ SINGLE PUSH BUTTON (MOMENTARY CONTACT)						
CATALOG NUMBER				BUTTON COLOR	CONTACT TYPE	DIAGRAM
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH			
GZ21-RZ3	GZ1-RX3	GZL1R3	GZXL1R3	RED	1 N.O./ 1 N.C.	
GZ21-GZ3	GZ1-GX3	GZL1G3	GZXL1G3	GREEN		
GZ21-KZ3	GZ1-KX3	GZL1K3	GZXL1K3	BLACK		
GZ21-AZ3	GZ1-AX3	GZL1A3	GZXL1A3	AMBER		
GZ21-WZ3	GZ1-WX3	GZL1W3	GZXL1W3	WHITE		
GZ21-BZ3	GZ1-BX3	GZL1B3	GZXL1B3	BLUE		

Series Constant GZ

Bushing Length/Operation

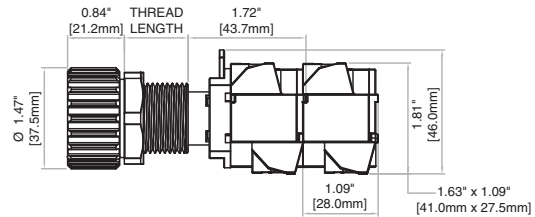
- GZ** - 21 - Momentary Push Button, 25mm(.94") Short/Normal
- 1 - Momentary Push Button, 40mm(1.57") Long
- L1** - Momentary Push Button, 57mm(2.24") Extended
- XL1** - Momentary Push Button, 67mm(2.63") 2X Long

Operator Color

- RZ/RX/R** - Red
- GZ/GX/G** - Green
- KZ/KX/K** - Black
- AZ/AX/A** - Amber
- WZ/WX/W** - White
- BZ/BX/B** - Blue

Contacts

- 1 - 1 N.O.
- 2 - 1 N.C.
- 3 - 1 Universal, 1 N.O., 1 N.C.
- 6 - 2 N.O.
- 7 - 2 N.C.
- 8 - 2 Universal, 2 N.O., 2 N.C.
- 0 - No Contact Block



GZ21B, GZ1B, GZL1B, GZXL1B

GZ BIG SINGLE PUSH BUTTON (MOMENTARY CONTACT)						
CATALOG NUMBER				BUTTON COLOR	CONTACT TYPE	DIAGRAM
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH			
GZ21B-RZ3	GZ1B-RX3	GZL1B3	GZXL1B3	RED	1 N.O./ 1 N.C.	
GZ21B-GZ3	GZ1B-GX3	GZL1G3	GZXL1G3	GREEN		
GZ21B-KZ3	GZ1B-KX3	GZL1K3	GZXL1K3	BLACK		
GZ21B-AZ3	GZ1B-AX3	GZL1A3	GZXL1A3	AMBER		
GZ21B-WZ3	GZ1B-WX3	GZL1W3	GZXL1W3	WHITE		
GZ21B-BZ3	GZ1B-BX3	GZL1B3	GZXL1B3	BLUE		

Series Constant GZ

Bushing Length/Operation

- GZ** - 21B - Big Momentary Push Button, 25mm(.94") Short/Normal
- 1B** - Big Momentary Push Button, 40mm(1.57") Long
- L1B** - Big Momentary Push Button, 57mm(2.24") Extended
- XL1B** - Big Momentary Push Button, 67mm(2.63") 2X Long

Operator Color

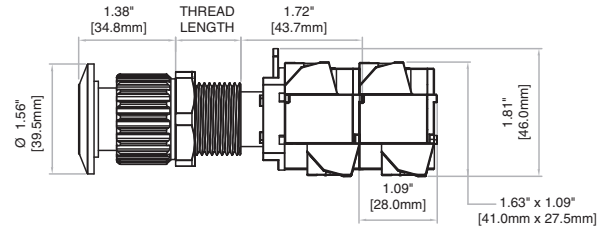
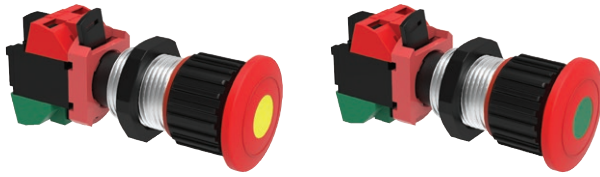
- RZ/RX/R** - Red
- GZ/GX/G** - Green
- KZ/KX/K** - Black
- AZ/AX/A** - Amber
- WZ/WX/W** - White
- BZ/BX/B** - Blue

Contacts

- 1 - 1 N.O.
- 2 - 1 N.C.
- 3 - 1 Universal, 1 N.O., 1 N.C.
- 6 - 2 N.O.
- 7 - 2 N.C.
- 8 - 2 Universal, 2 N.O., 2 N.C.
- 0 - No Contact Block



PUSH BUTTON CONTROLS MOMENTARY



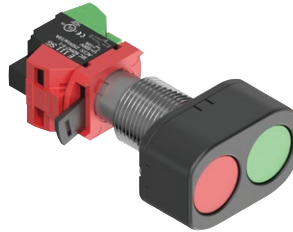
GZMM21, GZMM1, GZMML1, GZMMXL1

Series Constant	Bushing Length/Operation	Operator Color	Contacts
GZ	<p>MM21 - Momentary Mushroom Push Button, 25mm(.94") Short/Normal</p> <p>MM1 - Momentary Mushroom Push Button, 40mm(1.57") Long</p> <p>MML1 - Momentary Mushroom Push Button, 57mm(2.24") Extended</p> <p>MMXL1 - Momentary Mushroom Push Button, 67mm(2.63") 2X Long</p>	<p>RY - Yellow w/ Red Background</p> <p>RG - Green w/ Red Background</p> <p>RK - Black w/ Red Background</p>	<p>1 - 1 N.O.</p> <p>2 - 1 N.C.</p> <p>3 - 1 Universal, 1 N.O, 1 N.C.</p> <p>6 - 2 N.O.</p> <p>7 - 2 N.C.</p> <p>8 - 2 Universal, 2 N.O, 2 N.C.</p> <p>0 - No Contact Block</p>

GZ SINGLE PUSH BUTTON (MOMENTARY CONTACT) MUSHROOM HEAD PUSH

SHORT 0.98" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZMM21-RM3	GZMM1-RY3	GZMML1-RY3	GZMMXL1-RY3	RED/YELLOW	1 N.O./1 N.C.	
GZMM21-RG3	GZMM1-RG3	GZMML1-RG3	GZMMXL1-RG3	RED/GREEN	1 N.O./1 N.C.	
GZMM21-RK3	GZMM1-RK3	GZMML1-RK3	GZMMXL1-RK3	RED/BLACK	1 N.O./1 N.C.	

DOUBLE PUSH BUTTON CONTROLS MOMENTARY



Series Constant	Bushing Length/Operation	Operator Color	Contacts
GZ	<p>22 - Double Momentary Push Button, 25mm(.94") Short/Normal</p> <p>2 - Double Momentary Push Button, 40mm(1.57") Long</p> <p>L2 - Double Momentary Push Button, 57mm(2.24") Extended</p> <p>XL2 - Double Momentary Push Button, 67mm(2.63") 2X Long</p>	<p>GR - Green/Red</p> <p>KK - Black/Black</p>	<p>12 - 1 N.O, 1 N.C.</p> <p>11 - 2 N.O</p>

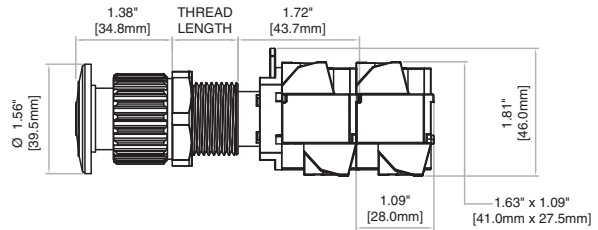
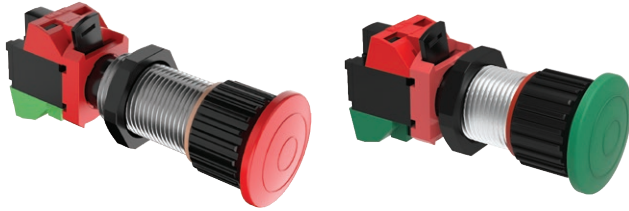
GZ DOUBLE PUSH BUTTON (MOMENTARY CONTACT)

SHORT 0.94" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZ22-GR12	GZ2-GR12	GZL2GR12	GZXL2GR12	RED/GREEN	1 N.O./1 N.C.	
GZ22-KK12	GZ2-KK12	GZL2KK12	GZXL2KK12	BLACK/BLACK	1 N.O./1 N.C.	
GZ22-KK11	GZ2-KK11	GZL2KK11	GZXL2KK11	BLACK/BLACK	2 N.O	



CONTROLS GZ SERIES

MAINTAINED CONTACT PUSH BUTTONS

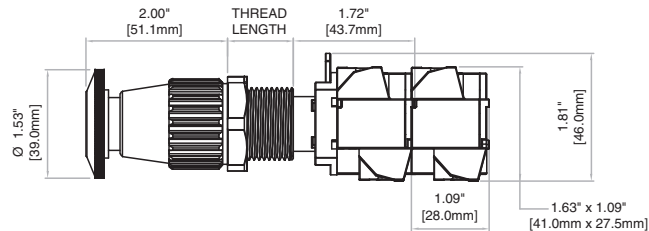


GZMP21, GZMP1, GZMPL1, GZMPXL1

Series Constant	Bushing Length/Operation	Operator Color	Contacts
GZ	<p>MP21 - Maintained Mushroom Push-Pull, 25mm(.94") Short/Normal</p> <p>MP1 - Maintained Mushroom Push-Pull, 40mm(1.57") Long</p> <p>MPL1 - Maintained Mushroom Push-Pull, 57mm(2.24") Extended</p> <p>MPXL1 - Maintained Mushroom Push-Pull, 67mm(2.63") 2X Long</p>	<p>RM/R - Red</p> <p>GM/G - Green</p> <p>KM/K - Black</p>	<p>1</p> <p>1 - 1 N.O.</p> <p>2 - 1 N.C.</p> <p>3 - 1 Universal, 1 N.O., 1 N.C.</p> <p>6 - 2 N.O.</p> <p>7 - 2 N.C.</p> <p>8 - 2 Universal, 2 N.O., 2 N.C.</p> <p>0 - No Contact Block</p>

GZ SINGLE PUSH BUTTON (MAINTAINED CONTACT) MUSHROOM HEAD PUSH – PULL RELEASE

SHORT 0.98" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZMP21-RM3	GZMP1-RM3	GZMPL1R3	GZMPXL1R3	RED	1 N.O./1 N.C.	
GZMP21-GM3	GZMP1-GM3	GZMPL1G3	GZMPXL1G3	GREEN	1 N.O./1 N.C.	
GZMP21-KM3	GZMP1-KM3	GZMPL1K3	GZMPXL1K3	BLACK	1 N.O./1 N.C.	



GZMT21, GZMT1, GZMTL1, GZMTXL1

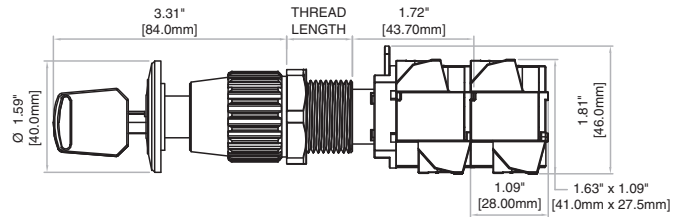
Series Constant	Bushing Length/Operation	Operator Color	Contacts
GZ	<p>MT21 - Maintained Mushroom Push-Twist, 25mm(.94") Short/Normal</p> <p>MT1 - Maintained Mushroom Push-Twist, 40mm(1.57") Long</p> <p>MTL1 - Maintained Mushroom Push-Twist, 57mm(2.24") Extended</p> <p>MTXL1 - Maintained Mushroom Push-Twist, 67mm(2.63") 2X Long</p>	<p>RM/R - Red</p> <p>GM/G - Green</p> <p>KM/K - Black</p>	<p>1</p> <p>1 - 1 N.O.</p> <p>2 - 1 N.C.</p> <p>3 - 1 Universal, 1 N.O., 1 N.C.</p> <p>6 - 2 N.O.</p> <p>7 - 2 N.C.</p> <p>8 - 2 Universal, 2 N.O., 2 N.C.</p> <p>0 - No Contact Block</p>

GZ SINGLE PUSH BUTTON (MAINTAINED CONTACT) MUSHROOM HEAD PUSH – TWIST RELEASE

SHORT 0.98" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZMT21-RM3	GZMT1-RM3	GZMTL1R3	GZMTXL1R3	RED	1 N.O./1 N.C.	



MAINTAINED CONTACT PUSH BUTTONS

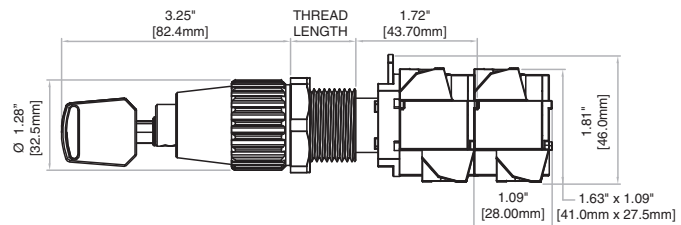


GZMK21, GZMK1, GZMKL1, GZMKXL1

Series Constant	Bushing Length/Operation	Operator Color	Contacts
GZ	<p>MK21 - Maintained Mushroom Push-Key, 25mm(.94") Short/Normal</p> <p>MK1 - Maintained Mushroom Push-Key, 40mm(1.57") Long</p> <p>MKL1 - Maintained Mushroom Push-Key, 57mm(2.24") Extended</p> <p>MKXL1 - Maintained Mushroom Push-Key, 67mm(2.63") 2X Long</p>	<p>RM/R - Red</p> <p>GM/G - Green</p> <p>KM/K - Black</p>	<p>1 - 1 N.O.</p> <p>2 - 1 N.C.</p> <p>3 - 1 Universal, 1 N.O, 1 N.C.</p> <p>6 - 2 N.O.</p> <p>7 - 2 N.C.</p> <p>8 - 2 Universal, 2 N.O, 2 N.C.</p> <p>0 - No Contact Block</p>

GZ SINGLE PUSH BUTTON (MAINTAINED CONTACT) MUSHROOM HEAD PUSH – KEY RELEASE

SHORT 0.98" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZMK21-RM3	GZMK1-RM3	GZMKL1R3	GZMKXL1R3	RED	1 N.O./1 N.C.	



GZK21, GZK1, GZKL1, GZKXL1

Series Constant	Bushing Length/Operation	Contacts
GZ	<p>K21 - Maintained Push-Key, 25mm(.94") Short/Normal</p> <p>K1 - Maintained Push-Key, 40mm(1.57") Long</p> <p>KL1 - Maintained Push-Key, 57mm(2.24") Extended</p> <p>KXL1 - Maintained Push-Key, 67mm(2.63") 2X Long</p>	<p>1 - 1 N.O.</p> <p>2 - 1 N.C.</p> <p>3 - 1 Universal, 1 N.O, 1 N.C.</p> <p>6 - 2 N.O.</p> <p>7 - 2 N.C.</p> <p>8 - 2 Universal, 2 N.O, 2 N.C.</p> <p>0 - No Contact Block</p>

GZ SINGLE PUSH BUTTON (MAINTAINED CONTACT) KEY RELEASE

SHORT 0.98" [25MM] THD.	LONG 1.57" [40MM] THD.	EXTENDED 2.24" [57MM] THD.	2X LONG 2.62" [67MM] THD.	COLOR	CONTACT TYPE	DIAGRAM
GZK21-3	GZK1-3	GZKL13	GZKXL13	CHROME	1 N.O./1 N.C.	

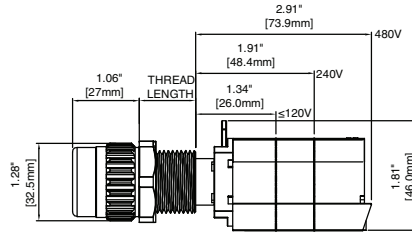


CONTROLS GZ SERIES

PILOT LIGHT CONTROLS



PILOT LIGHT



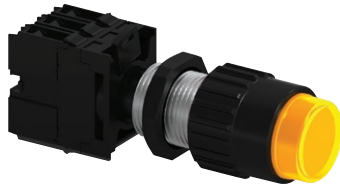
GZ23, GZB3, GZL3, GZXL3

Series	Constant	Bushing Length/Operation	Lens/LED Color	Lamp Voltage
GZ	Constant	23 - Pilot Light LED, 25mm(.94") Short/Normal	A - Amber	4 - 24V AC/DC
		B3 - Pilot Light LED, 40mm(1.57") Long	B - Blue	12 - 12V AC/DC
		L3 - Pilot Light LED, 57mm(2.24") Extended	C - Clear	23 - 120V AC/DC
		XL3 - Pilot Light LED, 67mm(2.63") 2X Long	G - Green	24 - 240V AC
23	Constant		R - Red	48 - 480V AC

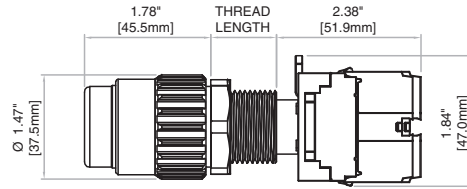
GZ PILOT LIGHTS						
CATALOG NUMBER				COLOR	VOLTAGE	DIAGRAM
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH			
GZ23-A12	GZB3-A12	GZL3A12	GZXL3A12	AMBER	12V AC/DC LED	X1 ⊗ X2
GZ23-B12	GZB3-B12	GZL3B12	GZXL3B12	BLUE		
GZ23-C12	GZB3-C12	GZL3C12	GZXL3C12	CLEAR		
GZ23-G12	GZB3-G12	GZL3G12	GZXL3G12	GREEN		
GZ23-R12	GZB3-R12	GZL3R12	GZXL3R12	RED		
GZ23-A4	GZB3-A4	GZL3A4	GZXL3A4	AMBER	24V AC/DC LED	X1 ⊗ X2
GZ23-B4	GZB3-B4	GZL3B4	GZXL3B4	BLUE		
GZ23-C4	GZB3-C4	GZL3C4	GZXL3C4	CLEAR		
GZ23-G4	GZB3-G4	GZL3G4	GZXL3G4	GREEN		
GZ23-R4	GZB3-R4	GZL3R4	GZXL3R4	RED		
GZ23-A23	GZB3-A23	GZL3A23	GZXL3A23	AMBER	120V AC/DC LED	X1 ⊗ X2
GZ23-B23	GZB3-B23	GZL3B23	GZXL3B23	BLUE		
GZ23-C23	GZB3-C23	GZL3C23	GZXL3C23	CLEAR		
GZ23-G23	GZB3-G23	GZL3G23	GZXL3G23	GREEN		
GZ23-R23	GZB3-R23	GZL3R23	GZXL3R23	RED		
GZ23-A24	GZB3-A24	GZL3A24	GZXL3A24	AMBER	240V AC LED	X1 ⊗ X2
GZ23-B24	GZB3-B24	GZL3B24	GZXL3B24	BLUE		
GZ23-C24	GZB3-C24	GZL3C24	GZXL3C24	CLEAR		
GZ23-G24	GZB3-G24	GZL3G24	GZXL3G24	GREEN		
GZ23-R24	GZB3-R24	GZL3R24	GZXL3R24	RED		
GZ23-A48	GZB3-A48	GZL3A48	GZXL3A48	AMBER	480V AC LED	X1 ⊗ X2
GZ23-B48	GZB3-B48	GZL3B48	GZXL3B48	BLUE		
GZ23-C48	GZB3-C48	GZL3C48	GZXL3C48	CLEAR		
GZ23-G48	GZB3-G48	GZL3G48	GZXL3G48	GREEN		
GZ23-R48	GZB3-R48	GZL3R48	GZXL3R48	RED		



ILLUMINATED PUSH BUTTON CONTROLS



ILLUMINATED PUSH BUTTON



GZ24, GZB4, GZL4, GZXL4

Series Constant	Bushing Length/Operation	Lens/LED Color	Lamp Voltage	Contacts
GZ	24 - Illuminated Push Button LED, 25mm(.94") Short/Normal	A - Amber	4 - 24V AC/DC	3 - 1 Universal, 1 N.O, 1 N.C.
	B4 - Illuminated Push Button LED, 40mm(1.57") Long	B - Blue	12 - 12V AC/DC	
	L4 - Illuminated Push Button LED, 57mm(2.24") Extended	C - Clear	23 - 120V AC/DC	
	XL4 - Illuminated Push Button LED, 67mm(2.63") 2X Long	G - Green	24 - 240V AC	
		R - Red		

GZ ILLUMINATED PUSH BUTTON

SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH	COLOR	CONTACT TYPE & VOLTAGE	DIAGRAM
GZ24-A123	GZB4-A123	GZL4A123	GZXL4A123	AMBER	1 N.O./1 N.C. 12V AC/DC LED	
GZ24-B123	GZB4-B123	GZL4B123	GZXL4B123	BLUE		
GZ24-C123	GZB4-C123	GZL4C123	GZXL4C123	CLEAR		
GZ24-G123	GZB4-G123	GZL4G123	GZXL4G123	GREEN		
GZ24-R123	GZB4-R123	GZL4R123	GZXL4R123	RED		
GZ24-A43	GZB4-A43	GZL4A43	GZXL4A43	AMBER	1 N.O./1 N.C. 24V AC/DC LED	
GZ24-B43	GZB4-B43	GZL4B43	GZXL4B43	BLUE		
GZ24-C43	GZB4-C43	GZL4C43	GZXL4C43	CLEAR		
GZ24-G43	GZB4-G43	GZL4G43	GZXL4G43	GREEN		
GZ24-R43	GZB4-R43	GZL4R43	GZXL4R43	RED		
GZ24-A233	GZB4-A233	GZL4A233	GZXL4A233	AMBER	1 N.O./1 N.C. 120V AC/DC LED	
GZ24-B233	GZB4-B233	GZL4B233	GZXL4B233	BLUE		
GZ24-C233	GZB4-C233	GZL4C233	GZXL4C233	CLEAR		
GZ24-G233	GZB4-G233	GZL4G233	GZXL4G233	GREEN		
GZ24-R233	GZB4-R233	GZL4R233	GZXL4R233	RED		
GZ24-A243	GZB4-A243	GZL4A243	GZXL4A243	AMBER	1 N.O./1 N.C. 240V AC LED	
GZ24-B243	GZB4-B243	GZL4B243	GZXL4B243	BLUE		
GZ24-C243	GZB4-C243	GZL4C243	GZXL4C243	CLEAR		
GZ24-G243	GZB4-G243	GZL4G243	GZXL4G243	GREEN		
GZ24-R243	GZB4-R243	GZL4R243	GZXL4R243	RED		



CONTROLS
GZ SERIES

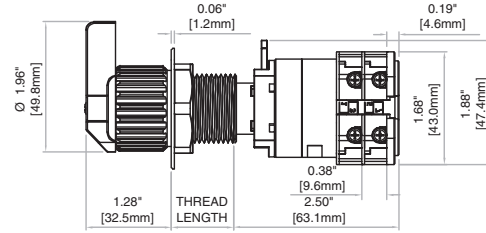
SELECTOR SWITCH CONTROLS MAINTAINED



SELECTOR SWITCH SINGLE STACK



SELECTOR SWITCH DOUBLE STACK



GZ25, GZ5, GZL5, GZXL5

	GZ	XL5	4H88
Series Constant	GZ		
Bushing Length/Operation	<ul style="list-style-type: none"> 25 - Maintained Selector Switch, 25mm(.94") Short/Normal 5 - Maintained Selector Switch, 40mm(1.57") Long L5 - Maintained Selector Switch, 57mm(2.24") Extended XL5 - Maintained Selector Switch, 67mm(2.63") 2X Long 		
Selector Switch Operation			<ul style="list-style-type: none"> 2A3 - 2 Position One Pole Double Throw, 1 N.O., 1 N.C. 2A6 - 2 Position Two Pole Double Throw, 2 N.O. A8 - 2 Position Two Pole Double Throw, 2 N.O., 2 N.C. 3C3 - 3 Position One Pole Double Throw, 1 N.O., 1 N.C. 3C8 - 3 Position One Pole Double Throw, 2 N.O., 2 N.C. 3G3 - 3 Position One Pole Double Throw, No Off, 1 N.C. Each Position 3G8 - 3 Position One Pole Double Throw, No Off, 2 N.C. Each Position 4H8 - 4 Position One Pole Double Throw, w/ Off, 1 N.C. Position 1,2,3 4H88 - 4 Position One Pole Double Throw, w/ Off, 2 N.C. Position 1,2,3



SELECTOR SWITCH CONTROLS MAINTAINED

GZ 2 POSITION SELECTOR SWITCH MAINTAINED CONTACT (SINGLE STACK)					ELECTRICAL DIAGRAM	TYPE OF OPERATION									
CATALOG NUMBER															
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH												
GZ25-2A3	GZ5-2A3	GZL52A3	GZXL52A3		CONTACT BLOCK TERMINALS <table border="1"> <thead> <tr> <th>POSITION</th> <th>1/2</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td>X</td> </tr> </tbody> </table>	POSITION	1/2	3/4	LEFT	X		RIGHT		X	2 POS. ONE POLE DOUBLE THROW
POSITION	1/2	3/4													
LEFT	X														
RIGHT		X													
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GZ 3 POSITION SELECTOR SWITCH MAINTAINED CONTACT (SINGLE STACK)					ELECTRICAL DIAGRAM	TYPE OF OPERATION												
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CONTROLS
GZ SERIES

SELECTOR SWITCH CONTROLS MAINTAINED

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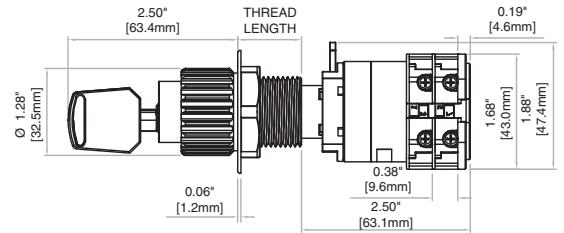
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KEYED SELECTOR SWITCH CONTROLS MAINTAINED



KEY SELECTOR SWITCH SINGLE STACK KEY SELECTOR SWITCH DOUBLE STACK



GZ28, GZ8, GZL8, GZXL8

<p>Series Constant GZ</p> <p>Bushing Length/Operation</p> <p>28 - Maintained Keyed Selector Switch, 25mm(.94") Short/Normal</p> <p>8 - Maintained Keyed Selector Switch, 40mm(1.57") Long</p> <p>L8 - Maintained Keyed Selector Switch, 57mm(2.24") Extended</p> <p>XL8 - Maintained Keyed Selector Switch, 67mm(2.63") 2X Long</p>	<p>Selector Switch Operation</p> <p>2A3 - 2 Position One Pole Double Throw, 1 N.O., 1 N.C.</p> <p>2A6 - 2 Position Two Pole Double Throw, 2 N.O.</p> <p>A8 - 2 Position Two Pole Double Throw, 2 N.O., 2 N.C.</p> <p>3C3 - 3 Position One Pole Double Throw, 1 N.O., 1 N.C.</p> <p>3C8 - 3 Position One Pole Double Throw, 2 N.O., 2 N.C.</p> <p>3G3 - 3 Position One Pole Double Throw, No Off, 1 N.C. Each Position</p> <p>3G8 - 3 Position One Pole Double Throw, No Off, 2 N.C. Each Position</p> <p>4H8 - 4 Position One Pole Double Throw, w/ Off, 1 N.C. Position 1,2,3</p> <p>4H88 - 4 Position One Pole Double Throw, w/ Off, 2 N.C. Position 1,2,3</p>	<p>Key Options</p> <p>22 - Key Removal in Left Position Only</p> <p>32 - Key Removal in Center Position Only</p>
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GZ 2 POSITION KEY SELECTOR SWITCH MAINTAINED CONTACT																				
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CONTROLS
GZ SERIES

KEYED SELECTOR SWITCH CONTROLS MAINTAINED

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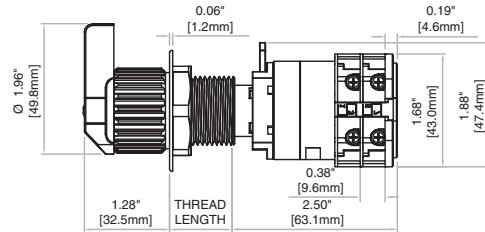
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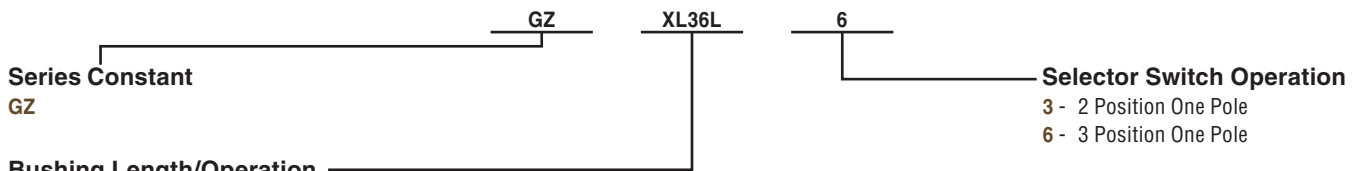
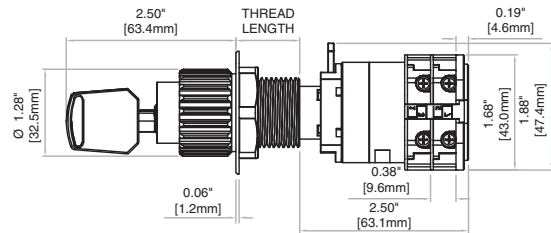
SELECTOR SWITCH CONTROLS SPRING RETURN



SELECTOR SWITCH SPRING RETURN



KEY SELECTOR SWITCH SPRING RETURN



Bushing Length/Operation

- 26** - Momentary Right 2 Position Selector Switch, 25mm(.94") Short/Normal
- 6** - Momentary 2 Position Right Selector Switch, 40mm(1.57") Long
- L6** - Momentary 2 Position Right Selector Switch, 57mm(2.24") Extended
- XL6** - Momentary 2 Position Right Selector Switch, 67mm(2.63") 2X Long
- 35** - Momentary Left Maintained Right 3 Position Selector Switch, 25mm(.94") Short/Normal
- 15** - Momentary Left Maintained Right 3 Position Selector Switch, 40mm(1.57") Long
- L15** - Momentary Left Maintained Right 3 Position Selector Switch, 57mm(2.24") Extended
- XL15** - Momentary Left Maintained Right 3 Position Selector Switch, 67mm(2.63") 2X Long
- 27** - Momentary Left & Right 3 Position Selector Switch, 25mm(.94") Short/Normal
- 7** - Momentary Left & Right 3 Position Selector Switch, 40mm(1.57") Long
- L7** - Momentary Left & Right 3 Position Selector Switch, 57mm(2.24") Extended
- XL7** - Momentary Left & Right 3 Position Selector Switch, 67mm(2.63") 2X Long
- 34** - Momentary Right Maintained Left 3 Position Selector Switch, 25mm(.94") Short/Normal
- 14** - Momentary Right Maintained Left 3 Position Selector Switch, 40mm(1.57") Long
- L14** - Momentary Right Maintained Left 3 Position Selector Switch, 57mm(2.24") Extended
- XL14** - Momentary Right Maintained Left 3 Position Selector Switch, 67mm(2.63") 2X Long
- 56-2L** - Momentary Right 2 Position Keyed Selector Switch, 25mm(.94") Short/Normal
- 36-2L** - Momentary 2 Position Right Keyed Selector Switch, 40mm(1.57") Long
- L36L** - Momentary 2 Position Right Keyed Selector Switch, 57mm(2.24") Extended
- XL36L** - Momentary 2 Position Right Keyed Selector Switch, 67mm(2.63") 2X Long
- 59-3R** - Momentary Left Maintained Right 3 Position Keyed Selector Switch, 25mm(.94") Short/Normal
- 39-3R** - Momentary Left Maintained Right 3 Position Keyed Selector Switch, 40mm(1.57") Long
- L39R** - Momentary Left Maintained Right 3 Position Keyed Selector Switch, 57mm(2.24") Extended
- XL39R** - Momentary Left Maintained Right 3 Position Keyed Selector Switch, 67mm(2.63") 2X Long
- 57-3C** - Momentary Left & Right 3 Position Keyed Selector Switch, 25mm(.94") Short/Normal
- 37-3C** - Momentary Left & Right 3 Position Keyed Selector Switch, 40mm(1.57") Long
- L37C** - Momentary Left & Right 3 Position Keyed Selector Switch, 57mm(2.24") Extended
- XL37C** - Momentary Left & Right 3 Position Keyed Selector Switch, 67mm(2.63") 2X Long
- 58** - 3L-Momentary Right Maintained Left 3 Position Keyed Selector Switch, 25mm(.94") Short/Normal
- 38** - 3L-Momentary Right Maintained Left 3 Position Keyed Selector Switch, 40mm(1.57") Long
- L38L** - Momentary Right Maintained Left 3 Position Keyed Selector Switch, 57mm(2.24") Extended
- XL38L** - Momentary Right Maintained Left 3 Position Keyed Selector Switch, 67mm(2.63") 2X Long

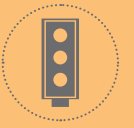


CONTROLS
GZ SERIES

SELECTOR SWITCH CONTROLS SPRING RETURN

GZ 2 POSITION SELECTOR SWITCH SPRING RETURN																					
CATALOG NUMBER				ELECTRICAL DIAGRAM	TYPE OF OPERATION																
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH																		
GZ26-3	GZ6-3	GZL63	GZXL63	<table border="1"> <thead> <tr> <th colspan="4">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th colspan="2">3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS				POSITION	1/2	3/4		LEFT	X			RIGHT			X	2 POSITION MOMENTARY RIGHT
CONTACT BLOCK TERMINALS																					
POSITION	1/2	3/4																			
LEFT	X																				
RIGHT			X																		

GZ 3 POSITION SELECTOR SWITCH SPRING RETURN																									
CATALOG NUMBER				ELECTRICAL DIAGRAM	TYPE OF OPERATION																				
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH																						
GZ35-6	GZ15-6	GZL156	GZXL156	<table border="1"> <thead> <tr> <th colspan="4">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th colspan="2">3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>CENTER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS				POSITION	1/2	3/4		LEFT		X		CENTER				RIGHT			X	3 POS. SPRING TO CENTER FROM LEFT, MAINT. RIGHT
CONTACT BLOCK TERMINALS																									
POSITION	1/2	3/4																							
LEFT		X																							
CENTER																									
RIGHT			X																						
GZ27-6	GZ7-6	GZL76	GZXL76	<table border="1"> <thead> <tr> <th colspan="4">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th colspan="2">3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>CENTER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS				POSITION	1/2	3/4		LEFT	X			CENTER				RIGHT			X	3 POS. SPRING TO CENTER FROM LEFT AND RIGHT
CONTACT BLOCK TERMINALS																									
POSITION	1/2	3/4																							
LEFT	X																								
CENTER																									
RIGHT			X																						
GZ34-6	GZ14-6	GZL146	GZXL146	<table border="1"> <thead> <tr> <th colspan="4">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th colspan="2">3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>CENTER</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS				POSITION	1/2	3/4		LEFT		X		CENTER				RIGHT			X	3 POS. SPRING TO CENTER FROM RIGHT, MAINT. LEFT
CONTACT BLOCK TERMINALS																									
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LEFT		X																							
CENTER																									
RIGHT			X																						



SELECTOR SWITCH CONTROLS SPRING RETURN

GZ 2 POSITION KEY SELECTOR SWITCH SPRING RETURN																	
CATALOG NUMBER				ELECTRICAL DIAGRAM	TYPE OF OPERATION												
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH														
GZ56-2L3	GZ36-2L3	GZL36L3	GZXL36L3	<table border="1"> <thead> <tr> <th colspan="3">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS			POSITION	1/2	3/4	LEFT	X		RIGHT		X	2 POSITION MOMENTARY RIGHT
CONTACT BLOCK TERMINALS																	
POSITION	1/2	3/4															
LEFT	X																
RIGHT		X															

GZ 3 POSITION KEY SELECTOR SWITCH SPRING RETURN																				
CATALOG NUMBER				ELECTRICAL DIAGRAM	TYPE OF OPERATION															
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GZ59-3R6	GZ39-3R6	GZL39R6	GZXL39R6	<table border="1"> <thead> <tr> <th colspan="3">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td></td> <td>X</td> </tr> <tr> <td>CENTER</td> <td>X</td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS			POSITION	1/2	3/4	LEFT		X	CENTER	X		RIGHT		X	3 POS. SPRING TO CENTER FROM LEFT, MAINT. RIGHT
CONTACT BLOCK TERMINALS																				
POSITION	1/2	3/4																		
LEFT		X																		
CENTER	X																			
RIGHT		X																		
GZ57-3C6	GZ37-3C6	GZL37C6	GZXL37C6	<table border="1"> <thead> <tr> <th colspan="3">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> </tr> <tr> <td>CENTER</td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS			POSITION	1/2	3/4	LEFT	X		CENTER			RIGHT		X	3 POS. SPRING TO CENTER FROM LEFT AND RIGHT
CONTACT BLOCK TERMINALS																				
POSITION	1/2	3/4																		
LEFT	X																			
CENTER																				
RIGHT		X																		
GZ58-3L6	GZ38-3L6	GZL38L6	GZXL38L6	<table border="1"> <thead> <tr> <th colspan="3">CONTACT BLOCK TERMINALS</th> </tr> <tr> <th>POSITION</th> <th>1/2</th> <th>3/4</th> </tr> </thead> <tbody> <tr> <td>LEFT</td> <td>X</td> <td></td> </tr> <tr> <td>CENTER</td> <td></td> <td></td> </tr> <tr> <td>RIGHT</td> <td></td> <td>X</td> </tr> </tbody> </table>	CONTACT BLOCK TERMINALS			POSITION	1/2	3/4	LEFT	X		CENTER			RIGHT		X	3 POS. SPRING TO CENTER FROM RIGHT, MAINT. LEFT
CONTACT BLOCK TERMINALS																				
POSITION	1/2	3/4																		
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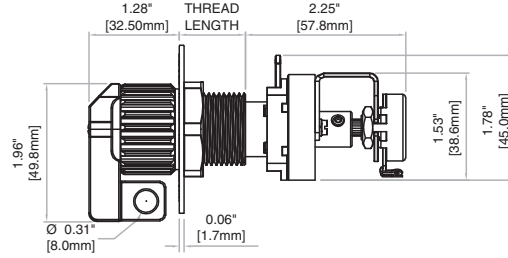


CONTROLS
GZ SERIES

POTENTIOMETERS SINGLE TURN



SINGLE TURN POTENTIOMETER



GZ133, GZ113, GZL113, GZXL113

Series Constant	Bushing Length/Operation		Potentiometer Resistance
	GZ	XL113	
GZ	133 - Potentiometer Single Turn, 25mm(.94") Short/Normal		2K2 - 2200 Ohms
	113 - Potentiometer Single Turn, 40mm(1.57") Long		4K7 - 4700 Ohms
	L113 - Potentiometer Single Turn, 57mm(2.24") Extended		10K - 10,000 Ohms
	XL113 - Potentiometer Single Turn, 67mm(2.63") 2X Long		220R - 220 Ohms
			470R - 470 Ohms
			1K - 1,000 Ohms
			22K - 22,000 Ohms
			47K - 47,000 Ohms
			100K - 100,000 Ohms
			220K - 220,000 Ohms
			470K - 470,000 Ohms
			1M - 1,000,000 Ohms

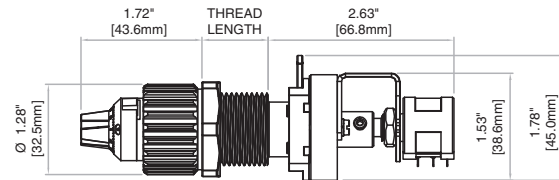
POTENTIOMETERS SINGLE TURN					
CATALOG NUMBER				POTENTIOMETER RESISTANCE (OHMS)	POTENTIOMETER (ELECTRICAL DEVICE)
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH		
GZ133-2K2	GZ113-2K2	GZL113-2K2	GZXL113-2K2	2.2KΩ	GZ-POTST-2.2
GZ133-4K7	GZ113-4K7	GZL113-4K7	GZXL113-4K7	4.7KΩ	GZ-POTST-4.7
GZ133-10K	GZ113-10K	GZL113-10K	GZXL113-10K	10KΩ	GZ-POTST-10
GZ133-220R	GZ113-220R	GZL113-220R	GZXL113-220R	220Ω	GZ-POTST-220
GZ133-470R	GZ113-470R	GZL113-470R	GZXL113-470R	470Ω	GZ-POTST-470
GZ133-1K	GZ113-1K	GZL113-1K	GZXL113-1K	1KΩ	GZ-POTST-1
GZ133-22K	GZ113-22K	GZL113-22K	GZXL113-22K	22KΩ	GZ-POTST-22
GZ133-47K	GZ113-47K	GZL113-47K	GZXL113-47K	47KΩ	GZ-POTST-47
GZ133-100K	GZ113-100K	GZL113-100K	GZXL113-100K	100KΩ	GZ-POTST-100
GZ133-220K	GZ113-220K	GZL113-220K	GZXL113-220K	220KΩ	GZ-POTST-220
GZ133-470K	GZ113-470K	GZL113-470K	GZXL113-470K	470KΩ	GZ-POTST-470
GZ133-1M	GZ113-1M	GZL113-1M	GZXL113-1M	1MΩ	GZ-POTST-1M



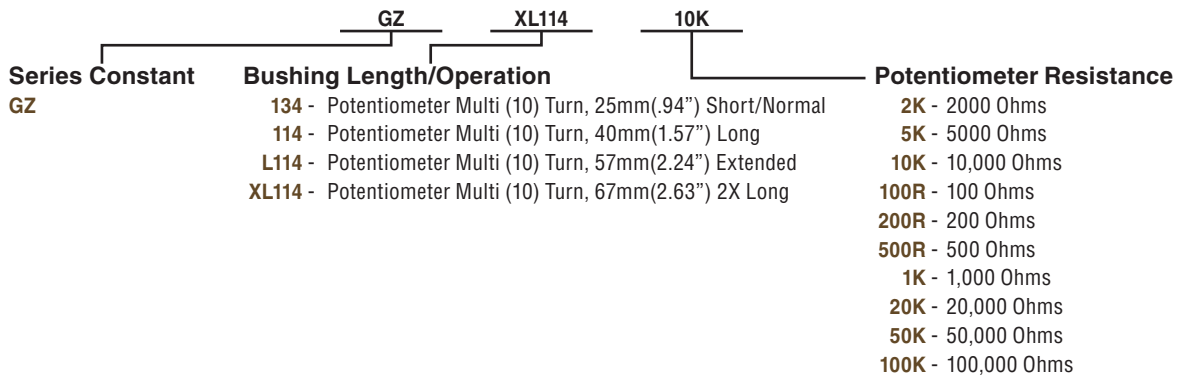
POTENTIOMETERS MULTI (10) TURN



10 TURN POTENTIOMETER



GZ134, GZ114, GZL114, GZXL114



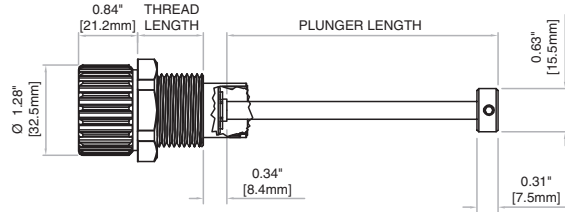
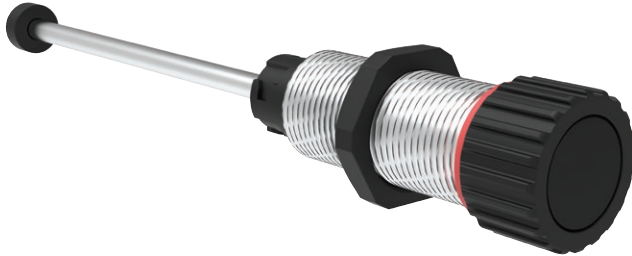
POTENTIOMETERS 10 TURN

CATALOG NUMBER				POTENTIOMETER RESISTANCE (OHMS)	POTENTIOMETER (ELECTRICAL DEVICE)
SHORT 0.98" [25MM] THD. LENGTH	LONG 1.57" [40MM] THD. LENGTH	EXTENDED 2.24" [57MM] THD. LENGTH	2X LONG 2.62" [67MM] THD. LENGTH		
GZ134-2K	GZ114-2K	GZL114-2K	GZXL114-2K	2KΩ	GZ-POTMT-2
GZ134-5K	GZ114-5K	GZL114-5K	GZXL114-5K	5KΩ	GZ-POTMT-5
GZ134-10K	GZ114-10K	GZL114-10K	GZXL114-10K	10KΩ	GZ-POTMT-10
GZ134-100R	GZ114-100R	GZL114-100R	GZXL114-100R	100Ω	GZ-POTMT-100R
GZ134-200R	GZ114-200R	GZL114-200R	GZXL114-200R	200Ω	GZ-POTMT-200R
GZ134-500R	GZ114-500R	GZL114-500R	GZXL114-500R	500Ω	GZ-POTMT-500R
GZ134-1K	GZ114-1K	GZL114-1K	GZXL114-1K	1KΩ	GZ-POTMT-1
GZ134-20K	GZ114-20K	GZL114-20K	GZXL114-20K	20KΩ	GZ-POTMT-20
GZ134-50K	GZ114-50K	GZL114-50K	GZXL114-50K	50KΩ	GZ-POTMT-50
GZ134-100K	GZ114-100K	GZL114-100K	GZXL114-100K	100KΩ	GZ-POTMT-100



CONTROLS
GZ SERIES

RESET BUTTON



GZ-RST, GZLRST, GZXLRST

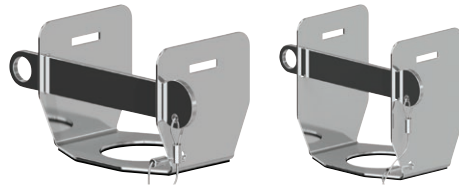
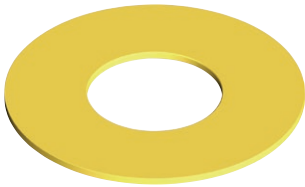
Series Constant	Bushing Length/Operation	Operator Color	Shaft Length
GZ	RST - Reset Button, 40mm(1.57") Long	KX - Black	100 - 100mm
	LRST - Reset Button, 57mm(2.24") Extended	AX - Amber	120 - 120mm
	XLRST - Reset Button, 67mm(2.63") 2X Long	WX - White	300 - 300mm
		BX - Blue	
		RX - Red	
		GX - Green	

RESET BUTTON				
LONG 1.57" (40MM) THREAD LENGTH	EXTENDED 2.24" (57MM) THREAD LENGTH	2X LONG 2.62" (67MM) THREAD LENGTH	BUTTON COLOR	SHAFT LENGTH
GZ-RST-KX100	GZLRST-KX100	GZXLRST-KX100	BLACK	100 mm
GZ-RST-KX120	GZLRST-KX120	GZXLRST-KX120	BLACK	120 mm
GZ-RST-KX300	GZLRST-KX300	GZXLRST-KX300	BLACK	300 mm
GZ-RST-AX100	GZLRST-AX100	GZXLRST-AX100	AMBER	100 mm
GZ-RST-AX120	GZLRST-AX120	GZXLRST-AX120	AMBER	120 mm
GZ-RST-AX300	GZLRST-AX300	GZXLRST-AX300	AMBER	300 mm
GZ-RST-WX100	GZLRST-WX100	GZXLRST-WX100	WHITE	100 mm
GZ-RST-WX120	GZLRST-WX120	GZXLRST-WX120	WHITE	120 mm
GZ-RST-WX300	GZLRST-WX300	GZXLRST-WX300	WHITE	300 mm
GZ-RST-BX100	GZLRST-BX100	GZXLRST-BX100	BLUE	100 mm
GZ-RST-BX120	GZLRST-BX120	GZXLRST-BX120	BLUE	120 mm
GZ-RST-BX300	GZLRST-BX300	GZXLRST-BX300	BLUE	300 mm
GZ-RST-RX100	GZLRST-RX100	GZXLRST-RX100	RED	100 mm
GZ-RST-RX120	GZLRST-RX120	GZXLRST-RX120	RED	120 mm
GZ-RST-RX300	GZLRST-RX300	GZXLRST-RX300	RED	300 mm
GZ-RST-GX100	GZLRST-GX100	GZXLRST-GX100	GREEN	100 mm
GZ-RST-GX120	GZLRST-GX120	GZXLRST-GX120	GREEN	120 mm
GZ-RST-GX300	GZLRST-GX300	GZXLRST-GX300	GREEN	300 mm

Plunger Length can be shortened as required in the field.



ACCESSORIES



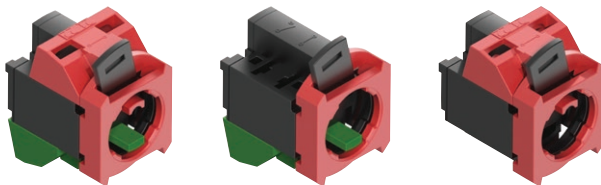
MUSHROOM PUSH BUTTON ACCESSORIES

YELLOW BACKPLATE FOR ESTOP	LOCKOUT FOR GZMP, GZMM (PUSH-PULL)	LOCKOUT FOR GZMT (PUSH-TWIST)
GZMRYLBP	GZMRPPBLO	GZMRTPBLO

Stainless Steel Lockouts allow button to be locked out in either position.

MOMENTARY PUSH BUTTON ACCESSORIES

DEPRESSED LOCKOUT FOR GZ21, GZ1, GZL1, GZXL1	COVERED LOCKOUT FOR GZ21, GZ1, GZL1, GZXL1
GZPBMMDHLO	GZPBMMRHLO



1 N.O., 1 N.C.

1 N.O.

1 N.C.

ROTARY SWITCH CONTACT BLOCKS

CATALOG NUMBER	DESCRIPTION
SGE-GIN1220	2-Position, One-Pole, Double Throw
SGE-GIN2220	2-Position, Two-Pole, Double Throw
SGE-GRC1320SJ	3-Position, One-Pole, Double Throw with Off
SGE-GRC2320SJ	3-Position, Two-Pole, Double Throw with Off
SGE-GRS1220SJ	2-Position, One-Pole, Double Throw without Off
SGE-GRS2220SJ	2-Position, Two-Pole, Double Throw without Off
SGE-GRSE1220SJ	2-Position, Spring Return to Left, One-Pole, Double Throw
SGE-GRIE1320SJ	3-Position, Momentary Left / Maintained Center and Right, One-Pole, Double Throw with Off
SGE-GRP1320SJ	3-Position, Momentary Left and Right / Maintained Center, One-Pole, Double Throw with Off
SGE-GRID1320SJ	3-Position, Momentary Right / Maintained Center and Left, One-Pole, Double Throw with Off

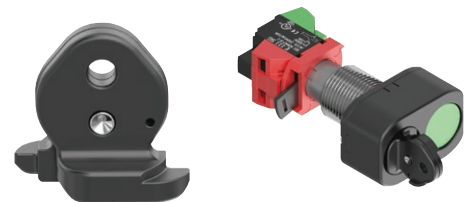
GZ ADDER CONTACT BLOCKS - TWO BLOCKS MAX.

CATALOG NUMBER	DESCRIPTION	COLOR CODE
SGE-E111SG	1 N.O. / 1 N.C.	Red / Green
SGE-E110SG	1 N.O.	Green
SGE-E101SG	1 N.C.	Red
SGE-E120SG	2 N.O.	Green
SGE-E102SG	2 N.C.	Red
SGE-E111S	1NO (Early Make) / 1NC (Late Break)	Red / Green
SGE-E120S	1NO (Early Make) / 1NO (Standard Make)	Green
SGE-E102S	1NC (Late Break) / 1NC (Standard Break)	Red

Contact Blocks come with longer screws and installation instructions for stacking of contact blocks.

MISCELLANEOUS ACCESSORIES

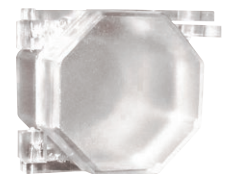
CATALOG NUMBER	DESCRIPTION
GZDBLPBMMDO	Depressed Lockout for Momentary Double Pushbutton
GZSSLO	Lockout for Non-Keyed Selector Switches
GZ-NP	Replacement Nameplate, Aluminum, Blank (Indicate marking if required.)
GZ-RG	Replacement Gasket
GO-RL	Sealing Locknut
GZ-S2CPG	Protective Silicone Boot (Standard Size Momentary Pushbuttons)
GZ-S2CPGBIG	Protective Silicone Boot (Big Size Momentary Pushbuttons)
GZ-RK0	Keyed-Alike Standard Replacement Key - 1 Pair
GZ-RKx	Keyed-Different Replacement Key - 1 Pair (Replace "x" with 1-12 for corresponding key.)
GOMLOCK	Lock Out for Standard Size Momentary & Maintained Push Buttons
GOMSRD	Shroud for Standard Size Maintained Mushroom Head (Yellow)



GZDBLPBMMDO



GZSSLO

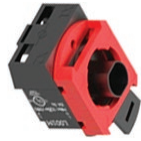


GOMLOCK

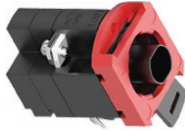


CONTROLS
GZ SERIES

ACCESSORIES



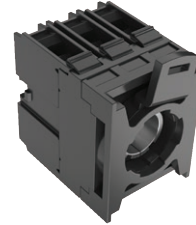
12/24/120V Socket



240V Socket



480V Socket

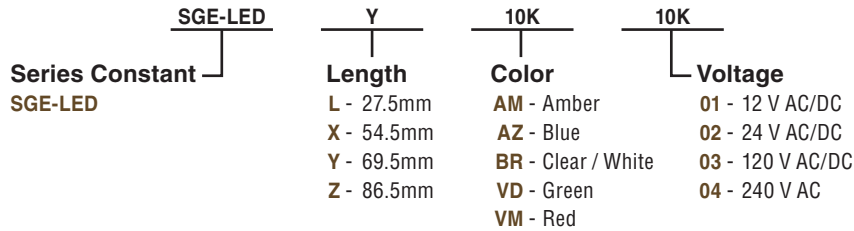


Illuminated Push Button Assembly

PILOT LIGHT AND ILLUMINATED PUSH BUTTON ACCESSORIES	
CATALOG NUMBER	DESCRIPTION
SGE-L001SG	Pilot Light Socket Only (12/24/120V AC/DC)
SGE-LC240SG	Pilot Light Socket Only (240V AC)
SGE-LC480SG	Pilot Light Socket Only (480V AC)
SGE-C11L	Illuminated Push Button Contact Assembly (Socket / 1 N.O. / 1 N.C.)
SGE-CLP001	Illuminated Push Button Socket Only
SGE-CLP101	1NC Contact (Red Plunger)
SGE-CLP110	1NO Contact (Green Plunger)
GZLENS-A	Replacement Lens (Amber)
GZLENS-B	Replacement Lens (Blue)
GZLENS-C	Replacement Lens (Clear)
GZLENS-G	Replacement Lens (Green)
GZLENS-R	Replacement Lens (Red)

Contact Blocks may be stacked up to 6 blocks deep (dependent on size of enclosure).

GZ REPLACEMENT LED LAMP CATALOG LOGIC



Note: *240 and 480V Pilot Lights utilize the 120V LED lamp with step-down transformers in the socket.



GZ REPLACEMENT LED LAMPS

LED LAMP PART #	DESCRIPTION	GZ OPERATOR	LED LAMP PART #	DESCRIPTION	GZ OPERATOR	LED LAMP PART #	DESCRIPTION	GZ OPERATOR
SGE-LEDLAM01	LED Lamp, Amber, Length = 27.5 mm, 12 V AC/DC	GZ23-A12 GZB3-A12	SGE-LEDXAZ03	LED Lamp, Blue, Length = 54.5 mm, 120 V AC/DC	GZL3B23 GZL3B24 GZL3B48 GZ24-B233	SGE-LEDYBR04	LED Lamp, White, Length = 69.5 mm, 240 V AC/DC	GZB4-C243
SGE-LEDLAM02	LED Lamp, Amber, Length = 27.5 mm, 24 V AC/DC	GZ23-A4 GZB3-A4	SGE-LEDXAZ04	LED Lamp, Blue, Length = 54.5 mm, 240 V AC/DC	GZ24-B243	SGE-LEDYVD01	LED Lamp, Green, Length = 69.5 mm, 12 V AC/DC	GZXL3G12 GZB4-G123
SGE-LEDLAM03	LED Lamp, Amber, Length = 27.5 mm, 120 V AC/DC	GZ23-A23 GZB3-A23 GZ23-A24 GZB3-A24 GZ23-A48 GZB3-A48	SGE-LEDXBR01	LED Lamp, White, Length = 54.5 mm, 12 V AC/DC	GZL3C12 GZ24-C123	SGE-LEDYVD02	LED Lamp, Green, Length = 69.5 mm, 24 V AC/DC	GZXL3G4 GZB4-G43
SGE-LEDLAZ01	LED Lamp, Blue, Length = 27.5 mm, 12 V AC/DC	GZ23-B12 GZB3-B12	SGE-LEDXBR02	LED Lamp, White, Length = 54.5 mm, 24 V AC/DC	GZL3C4 GZ24-C43	SGE-LEDYVD03	LED Lamp, Green, Length = 69.5 mm, 120 V AC/DC	GZXL3G23 GZXL3G24 GZXL3G48 GZB4-G233
SGE-LEDLAZ02	LED Lamp, Blue, Length = 27.5 mm, 24 V AC/DC	GZ23-B4 GZB3-B4	SGE-LEDXBR03	LED Lamp, White, Length = 54.5 mm, 120 V AC/DC	GZL3C23 GZL3C24 GZL3C48 GZ24-C233	SGE-LEDYVD04	LED Lamp, Green, Length = 69.5 mm, 240 V AC/DC	GZB4-G243
SGE-LEDLAZ03	LED Lamp, Blue, Length = 27.5 mm, 120 V AC/DC	GZ23-B23 GZB3-B23 GZ23-B24 GZB3-B24 GZ23-B48 GZB3-B48	SGE-LEDXBR04	LED Lamp, White, Length = 54.5 mm, 240 V AC/DC	GZ24-C243	SGE-LEDYVM01	LED Lamp, Red, Length = 69.5 mm, 12 V AC/DC	GZXL3R12 GZB4-R123
SGE-LEDLBR01	LED Lamp, White, Length = 27.5 mm, 12 V AC/DC	GZ23-C12 GZB3-C12	SGE-LEDXVD01	LED Lamp, Green, Length = 54.5 mm, 12 V AC/DC	GZL3G12 GZ24-G123	SGE-LEDYVM02	LED Lamp, Red, Length = 69.5 mm, 24 V AC/DC	GZXL3R4 GZB4-R43
SGE-LEDLBR02	LED Lamp, White, Length = 27.5 mm, 24 V AC/DC	GZ23-C4 GZB3-C4	SGE-LEDXVD02	LED Lamp, Green, Length = 54.5 mm, 24 V AC/DC	GZL3G4 GZ24-G43	SGE-LEDYVM03	LED Lamp, Red, Length = 69.5 mm, 120 V AC/DC	GZXL3R23 GZXL3R24 GZXL3R48 GZB4-R233
SGE-LEDLBR03	LED Lamp, White, Length = 27.5 mm, 120 V AC/DC	GZ23-C23 GZB3-C23 GZ23-C24 GZB3-C24 GZ23-C48 GZB3-C48	SGE-LEDXVD03	LED Lamp, Green, Length = 54.5 mm, 120 V AC/DC	GZL3G23 GZL3G24 GZL3G48 GZ24-G233	SGE-LEDYVM04	LED Lamp, Red, Length = 69.5 mm, 240 V AC/DC	GZB4-R243
SGE-LEDLVD01	LED Lamp, Green, Length = 27.5 mm, 12 V AC/DC	GZ23-G12 GZB3-G12	SGE-LEDXVD04	LED Lamp, Green, Length = 54.5 mm, 240 V AC/DC	GZ24-G243	SGE-LEDZAM01	LED Lamp, Amber, Length = 86.5 mm, 12 V AC/DC	GZL4A123 GZXL4A123
SGE-LEDLVD02	LED Lamp, Green, Length = 27.5 mm, 24 V AC/DC	GZ23-G4 GZB3-G4	SGE-LEDXVM01	LED Lamp, Red, Length = 54.5 mm, 12 V AC/DC	GZL3R12 GZ24-R123	SGE-LEDZAM02	LED Lamp, Amber, Length = 86.5 mm, 24 V AC/DC	GZL4A43 GZXL4A43
SGE-LEDLVD03	LED Lamp, Green, Length = 27.5 mm, 120 V AC/DC	GZ23-G23 GZB3-G23 GZ23-G24 GZB3-G24 GZ23-G48 GZB3-G48	SGE-LEDXVM02	LED Lamp, Red, Length = 54.5 mm, 24 V AC/DC	GZL3R4 GZ24-R43	SGE-LEDZAM03	LED Lamp, Amber, Length = 86.5 mm, 120 V AC/DC	GZL4A233 GZXL4A233
SGE-LEDLVM01	LED Lamp, Red, Length = 27.5 mm, 12 V AC/DC	GZ23-R12 GZB3-R12	SGE-LEDXVM03	LED Lamp, Red, Length = 54.5 mm, 120 V AC/DC	GZL3R23 GZL3R24 GZL3R48 GZ24-R233	SGE-LEDZAM04	LED Lamp, Amber, Length = 86.5 mm, 240 V AC/DC	GZL4A243 GZXL4A243
SGE-LEDLVM02	LED Lamp, Red, Length = 27.5 mm, 24 V AC/DC	GZ23-R4 GZB3-R4	SGE-LEDXVM04	LED Lamp, Red, Length = 54.5 mm, 240 V AC/DC	GZ24-R243	SGE-LEDZAZ01	LED Lamp, Blue, Length = 86.5 mm, 12 V AC/DC	GZL4B123 GZXL4B123
SGE-LEDLVM03	LED Lamp, Red, Length = 27.5 mm, 120 V AC/DC	GZ23-R23 GZB3-R23 GZ23-R24 GZB3-R24 GZ23-R48 GZB3-R48	SGE-LEDXVM01	LED Lamp, Amber, Length = 69.5 mm, 12 V AC/DC	GZXL3A12 GZB4-A123	SGE-LEDZAZ02	LED Lamp, Blue, Length = 86.5 mm, 24 V AC/DC	GZL4B43 GZXL4B43
SGE-LEDXAM01	LED Lamp, Amber, Length = 54.5 mm, 12 V AC/DC	GZL3A12 GZ24-A123	SGE-LEDXVM02	LED Lamp, Amber, Length = 69.5 mm, 24 V AC/DC	GZXL3A4 GZB4-A43	SGE-LEDZAZ03	LED Lamp, Blue, Length = 86.5 mm, 120 V AC/DC	GZL4B233 GZXL4B233
SGE-LEDXAM02	LED Lamp, Amber, Length = 54.5 mm, 24 V AC/DC	GZL3A4 GZ24-A43	SGE-LEDXVM03	LED Lamp, Amber, Length = 69.5 mm, 120 V AC/DC	GZXL3A23 GZXL3A24 GZXL3A48 GZB4-A233	SGE-LEDZAZ04	LED Lamp, Blue, Length = 86.5 mm, 240 V AC/DC	GZL4B243 GZXL4B243
SGE-LEDXAM03	LED Lamp, Amber, Length = 54.5 mm, 120 V AC/DC	GZL3A23 GZL3A24 GZL3A48 GZ24-A233	SGE-LEDXVM04	LED Lamp, Amber, Length = 69.5 mm, 240 V AC/DC	GZB4-A243	SGE-LEDZBR01	LED Lamp, White, Length = 86.5 mm, 12 V AC/DC	GZL4C123 GZXL4C123
SGE-LEDXAM04	LED Lamp, Amber, Length = 54.5 mm, 240 V AC/DC	GZ24-A243	SGE-LEDXVM01	LED Lamp, Blue, Length = 69.5 mm, 12 V AC/DC	GZXL3B12 GZB4-B123	SGE-LEDZBR02	LED Lamp, White, Length = 86.5 mm, 24 V AC/DC	GZL4C43 GZXL4C43
SGE-LEDXAZ01	LED Lamp, Blue, Length = 54.5 mm, 12 V AC/DC	GZL3B12 GZ24-B123	SGE-LEDXVM02	LED Lamp, Blue, Length = 69.5 mm, 120 V AC/DC	GZXL3B23 GZXL3B24 GZXL3B48 GZB4-B233	SGE-LEDZBR03	LED Lamp, White, Length = 86.5 mm, 120 V AC/DC	GZL4C233 GZXL4C233
SGE-LEDXAZ02	LED Lamp, Blue, Length = 54.5 mm, 24 V AC/DC	GZL3B4 GZ24-B43	SGE-LEDXVM03	LED Lamp, Blue, Length = 69.5 mm, 240 V AC/DC	GZB4-B243	SGE-LEDZBR04	LED Lamp, White, Length = 86.5 mm, 240 V AC/DC	GZL4C243 GZXL4C243
			SGE-LEDYAZ01	LED Lamp, Blue, Length = 69.5 mm, 12 V AC/DC	GZXL3B12 GZB4-B123	SGE-LEDZVD01	LED Lamp, Green, Length = 86.5 mm, 12 V AC/DC	GZL4G123 GZXL4G123
			SGE-LEDYAZ02	LED Lamp, Blue, Length = 69.5 mm, 24 V AC/DC	GZXL3B4 GZB4-B43	SGE-LEDZVD02	LED Lamp, Green, Length = 86.5 mm, 24 V AC/DC	GZL4G43 GZXL4G43
			SGE-LEDYAZ03	LED Lamp, Blue, Length = 69.5 mm, 120 V AC/DC	GZXL3B23 GZXL3B24 GZXL3B48 GZB4-B233	SGE-LEDZVD03	LED Lamp, Green, Length = 86.5 mm, 120 V AC/DC	GZL4G233 GZXL4G233
			SGE-LEDYAZ04	LED Lamp, Blue, Length = 69.5 mm, 240 V AC/DC	GZB4-B243	SGE-LEDZVD04	LED Lamp, Green, Length = 86.5 mm, 240 V AC/DC	GZL4G243 GZXL4G243
			SGE-LEDYBR01	LED Lamp, White, Length = 69.5 mm, 12 V AC/DC	GZXL3C12 GZB4-C123	SGE-LEDZVM01	LED Lamp, Red, Length = 86.5 mm, 12 V AC/DC	GZL4R123 GZXL4R123
			SGE-LEDYBR02	LED Lamp, White, Length = 69.5 mm, 24 V AC/DC	GZXL3C4 GZB4-C43	SGE-LEDZVM02	LED Lamp, Red, Length = 86.5 mm, 24 V AC/DC	GZL4R43 GZXL4R43
			SGE-LEDYBR03	LED Lamp, White, Length = 69.5 mm, 120 V AC/DC	GZXL3C23 GZXL3C24 GZXL3C48 GZB4-C233	SGE-LEDZVM03	LED Lamp, Red, Length = 86.5 mm, 120 V AC/DC	GZL4R233 GZXL4R233
						SGE-LEDZVM04	LED Lamp, Red, Length = 86.5 mm, 240 V AC/DC	GZL4R243 GZXL4R243



CONTROLS G SERIES

CUSTOM CONTROL PANEL OPERATORS INTRODUCTION



Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H₂, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III
Type 3, 4, 4X
ATEX-EEExd IIB + H₂ (-CN Configurations)

 LISTED - File E12379

 Certified - File LR11714

FEATURES-SPECIFICATIONS

Features

- Threaded bodies are all 3/4"-14 NPSM thread
- Key operated selector switches are randomly keyed with keys removable in all positions. Keyed alike or key removable in non-standard positions available from factory.
- Contact blocks can be stacked four deep maximum.

Short Style

SWB/GCS Enclosures. Assemblies with wall thickness up to 1/2" thick.

Long Style

All B7E Enclosures. EXB enclosures with cover thickness up to 1-1/2" thick.

Extended Style

EXB larger size enclosures with cover thickness up to 2-1/2" thick.

Killark long and extended push buttons, selector switches, reset and potentiometer operators are CENELEC/ATEX EEExd IIB+H₂ when installed in series EXB*CEN and GR*CEN enclosures.

For pilot lights and illuminated push buttons in CENELEC/ATEX applications.

Materials

- Operators are all aluminum except for certain movable parts which are stainless steel.
- All other parts such as screws are either stainless steel or plated steel

Electrical Rating

- Push button stations, selector switches Heavy duty 600 VAC max.
- Pilot lights 250 VAC max.

CONTACT BLOCK RATINGS – A600				
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) – P600		
CURRENT	125 VAC	250 VAC
INRUSH	55	.27
BREAKING	55	.27
CARRYING	2.55	2.55

AREA CLASSIFICATION CHART FOR OPERATORS

G01 ^④	G017 ^②	G030 ^②	G057 ^②	G0L2 ^④	G0L38 ^③
G02 ^④	G018 ^②	G034 ^②	G058 ^②	G0L3 ^④	G0L39 ^③
G05 ^④	G019 ^②	G035 ^② G036 ^③	G059 ^②	G0L4 ^④	G0L113 ^③
G06 ^④	G021 ^②	G037 ^③	G0113 ^③	G0L5 ^④	G0L114 ^③
G07 ^④	G022 ^②	G038 ^③	G0114 ^③	G0L6 ^④	G0LRST ^④
G08 ^③	G023 ^②	G039 ^③	G0133 ^②	G0L7 ^④ G0L8 ^③	G0M1 ^⑤
G010 ^③	G025 ^②	G040 ^①	G0134 ^②	G0L14 ^④	G0R11 ^④
G014 ^③	G026 ^②	G050 ^②	G0B3 ^④	G0L15 ^④	G0RST ^④
G015 ^③	G027 ^②	G051 ^②	G0B4 ^④	G0L36 ^③	G011388 ^②
G016 ^②	G028 ^②	G056 ^②	G0L1 ^④	G0L37 ^④	G011372 ^②

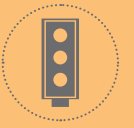
① Class II Div. 1 & 2 Group EFG

② Class I Div. 1 & 2 Group CD, Class II Div. 1 & 2 Group EFG, Class III

③ Class I Div. 1 & 2 Group BCD, Class II Div. 1 & 2 Group EFG, Class III Type 3, 4

④ Class I Div. 1 & 2 Group BCD, Class II Div. 1 & 2 Group EFG, Class III Type 3, 4, 4X

⑤ Class I Div. 1 & 2 Group CD, Class II Div. 1 & 2 Group EFG, Class III Type 3, 4



CUSTOM OPERATOR ORDERING SYSTEM

Example: **G01** — **RX** **2** **B** **N34**
FORM **COLOR** **CONTACTS** **NAMEPLATE** **CONSTANT**
SINGLE PUSH BUTTON **(RED)** **(1 N.C.)** **(STOP)**
LONG STYLE

NOTE: For faster delivery on custom operators order push buttons and selector switches without contact blocks and order contacts as a separate item.

1. Select operator form and style (short, long or extended).
2. Using the catalog numbering system below, insert the proper letter or number symbol as shown in the appropriate charts.
3. Spaces in catalog numbering system which have symbol already filled in cannot be changed.
4. Order accessories as separate item from Accessories page.
5. Add "N34" suffix to the end of all long style operators with the following prefix; G01, G02, GOB3, GOB4, G05, G06, G07, G08, G010, G011, G014, G015, G036, G037, G038, G039.

CATALOG SERIES	COLOR	VOLTAGE	POSITION	CAM	CONTACTS	NAMEPLATE	KEY LOCK	KEY TYPE	DESCRIPTION
G01 & G021 GOL1	Chart 1				Chart 4	Chart 8			Single push button: (Momentary contact)
GOM1	Chart 1				Chart 4	Chart 8			Single push button: (Maintained contact)
G02 & G022 GOL2	Chart 2				Chart 4	Chart 8			Double push button: (Momentary contact)
GOR11	Chart 2				Chart 4	Chart 8			Double push button: (Maintained contact)
GOB3 & GOL3	Chart 3	Chart 6				Chart 8			Pilot light
GOB4 GOL4	Chart 3	Chart 6			Chart 4	Chart 8			Illuminated push button
G05 & G025 GOL5			Chart 5	Chart 7	Chart 4	Chart 8			Selector switch (Maintained contact)
G06 & G026 GOL6					Chart 4	Chart 8			Selector switch (2 Position, spring return to left)
G07 & G027 GOL7					Chart 4	Chart 8			Selector switch (3 Position, return to center from center)
G014 & G034 GOL14					Chart 4	Chart 8			Selector switch (3 Position, return to center from right)
G015 & G035 GOL15					Chart 4	Chart 8			Selector switch (3 Position, return to center from left)
G08 & G028 GOL8			Chart 5	Chart 7	Chart 4	Chart 8	Chart 9	Chart 10	Key selector switch (Maintained contact)
G036 & G056 GOL36					Chart 4	Chart 8	Chart 9	Chart 10	Key selector switch (2 Position, spring return to left)
G037 & G057 GOL37					Chart 4	Chart 8	Chart 9	Chart 10	Key selector switch (3 Position, spring return to center)
G038 & G058 GOL38					Chart 4	Chart 8	Chart 9	Chart 10	Key selector switch (3 Position, return to center from right)
G039 & G059 GOL39					Chart 4	Chart 8	Chart 9	Chart 10	Key selector switch (3 Position, return to center from left)



CONTROLS G SERIES

G SYMBOLS FOR ORDERING CUSTOM OPERATORS

CHART 1 – SINGLE BUTTON				
GO1 SYMBOL	GO21 SYMBOL	GOL1 SYMBOL	GOM1 SYMBOL	COLOR
KX	KZ	K	KM	Black
RX	RZ	R	RM	Red
GX	GZ	G	GM	Green

CHART 2 – DOUBLE BUTTON	
SYMBOL	COLOR
KK	Black/Black
GG	Green/Green
RR	Red/Red
RG	Red/Green
KR	Black/Red
KG	Black/Green

CHART 3 – PILOT LIGHT LENS	
SYMBOL	COLOR
A	Amber
B	Blue
C	Clear
F	Frosted
G	Green
R	Red

CHART 4 – CONTACT BLOCKS	
SYMBOL	ARRANGEMENT
1	One N.O. block
2	One N.C. block
3	One universal (One N.O. and one N.C.)
4	One delayed break N.C. block
5	One early make N.O. block
6	Two N.O. blocks
7	Two N.C. blocks
8	Two universal (Two N.O. and two N.C.)
0	Omit contact block

CHART 5 – SELECTOR SWITCHES	
SYMBOL	NO. OF POSITIONS
2	Two
3	Three

CHART 6 – PILOT LIGHT LAMPS	
GOB3/GOB4 SYMBOL	VOLTAGE
23	120
4	24
40	240

CHART 7A – SELECTOR SWITCH CAMS

CAM AND CONTACT SELECTION TABLE FOR 2 AND 3 POSITION SELECTOR OPERATOR

SYMBOL	CONTACTS BLOCKS	Left position	Center position	Right position	LEFT/TOP BLOCKS	RIGHT/BOT BLOCKS	LEFT/TOP BLOCKS	RIGHT/BOT BLOCKS
		LEFT/TOP BLOCKS	RIGHT/BOT BLOCKS	LEFT/TOP BLOCKS				
A	NC	X	X				0	0
	NO	0	0				X	X
B	NC	X	0	X	X	X	0	X
	NO	0	X	0	0	0	X	0
C	NC	X	X	0	0	0	0	0
	NO	0	0	0	0	0	X	X
D	NC	0	0	X	X	X	0	0
	NO	0	0	0	0	0	X	X
G	NC	X	0	0	0	X	0	0
	NO	0	0	0	0	0	X	X

Note: Spring return operators are supplied with special fixed cam. Changes cannot be made for cam substitution.

CHART 7B	
CAM	PART NUMBER
A	0106775B
B	11586ABAB
C	11587ABAB
D	11588ABAB
G	11590ABAB

CHART 8 – NAMEPLATES [Ⓢ]			
SYMBOL	NAMEPLATE MARKINGS		G SERIES FORMS THAT NAMEPLATE CAN BE USED ON
	FRONT	BACK	
A	Omit nameplate	Omit nameplate	All
B	Start	Stop	GO1, 21, 20, 40, GOB3
C	Blank	Reset	GO1, 21, 20, 40, GOB3, GOB4
E	Blank	On	GOR4
F	Blank-Blank	Off-On	GO5, 25, 6, 26, 8, 28, 10, 30, 36, 56
G	Blank-Blank-Blank	Hand-Off-Auto	GO5, 25, 7, 27, 8, 28, 10, 30, 14, 34
H	Blank-Blank-Blank-Blank	Start-Stop	GO5, 25, 10, 30

[Ⓢ] Symbol not required on extended length GOL part number.

CHART 9 – KEY LOCK	
SYMBOL	TYPE
22	2 Position key remove left
20	2 Position key remove both
32	3 Position key remove center
30	3 Position key remove all

CHART 10 – KEY STYLE	
SYMBOL	TYPE
D	Keys different
A	Keys alike



PUSH BUTTONS



Push Button Green



Push Button Red



Mushroom Push Button



Double Push Button

G SINGLE PUSH BUTTON (MOMENTARY CONTACT)

CATALOG NUMBER			COLOR	CONTACT TYPE	NAMEPLATE MARKING
SHORT	LONG	EXTENDED			
G021-GZ1B	G01-GX1B N34	GOL1G1	Green		Start or Stop
G021-KZ1C	G01-KX1C N34	GOL1K1	Black		Reset or Blank
G021-RZ2B	G01-RX2B N34	GOL1R2	Red		Start or Stop
G021-KZ2C	G01-KX2C N34	GOL1K2	Black		Reset or Blank
G021-GZ3C	G01-GX3C N34	GOL1G3	Green		Reset or Blank
G021-RZ3C	G01-RX3C N34	GOL1R3	Red		Reset or Blank
G021-KZ3C	G01-KX3C N34	GOL1K3	Black		Reset or Blank
G021-GZ0C	G01-GX0C N34	GOL1G	Green		None
G021-RZ0C	G01-RX0C N34	GOL1R	Red	Reset or Blank	
G021-KZ0C	G01-KX0C N34	GOL1K	Black	Reset or Blank	

G SINGLE PUSH BUTTON (MAINTAINED CONTACT) MUSHROOM HEAD PUSH – PULL OPERATION

CATALOG NUMBER			COLOR	CONTACT TYPE	NAMEPLATE MARKING
SHORT	LONG	EXTENDED			
GOM21-GM3C	GOM1-GM3C N34	GOML1G3	Green		Blank
GOM21-RM3C	GOM1-RM3C N34	GOML1R3	Red		Blank
GOM21-KM3C	GOM1-KM3C N34	GOML1K3	Black		Blank
GOM21-GM0C	GOM1-GM0C N34	GOML1G	Green		None
GOM21-RM0C	GOM1-RM0C N34	GOML1R	Red	Blank	
GOM21-KM0C	GOM1-KM0C N34	GOML1K	Black	Blank	

G DOUBLE PUSH BUTTON (MOMENTARY CONTACT)

CATALOG NUMBER			COLOR	CONTACT TYPE	NAMEPLATE MARKING
SHORT	LONG	EXTENDED			
G022-GR12D	G02-GR12D N34	GOL2GR12	Green/Red		Start/Stop or Blank
G022-KK12D	G02-KK12D N34	GOL2KK12	Black/Black		Start/Stop or Blank
G022-GR33D	G02-GR33D N34	GOL2GR33	Green/Red		Start/Stop or Blank
G022-KK33D	G02-KK33D N34	GOL2KK33	Black/Black		Start/Stop or Blank
G022-GR00D	G02-GR00D N34	GOL2GR	Green/Red	None	Start/Stop or Blank
G022-KK00D	G02-KK00D N34	GOL2KK	Black/Black		Start/Stop or Blank

G DOUBLE PUSH BUTTON (MAINTAINED CONTACT)

CATALOG NUMBER			COLOR	CONTACT TYPE	NAMEPLATE MARKING
SHORT	LONG	EXTENDED			
—	GOR11-GR6D N34	—	Green/Red		Start/Stop or Blank
—	GOR11-GR7D N34	—	Green/Red		Start/Stop or Blank
—	GOR11-GR8D N34	—	Green/Red		Start/Stop or Blank
—	GOR11-GR0D N34	—	Green/Red		None



CONTROLS G SERIES

PILOT LIGHTS






Pilot Light





Illuminated Push Button

G PILOT LIGHTS				
CATALOG NUMBER		COLOR	CONTACT TYPE	NAMEPLATE MARKING
LONG	EXTENDED			
GOB3-A23C N34	GOL3A	Amber	 110-120 Volts Full Volts	Blank
GOB3-B23C N34	GOL3B	Blue		Blank
GOB3-C23C N34	GOL3C	Clear		Blank
GOB3-F23C N34	GOL3F	Frosted		Blank
GOB3-G23C N34	GOL3G	Green		Blank
GOB3-R23C N34	GOL3R	Red		Blank

G PILOT LIGHTS WITH LED 110 VOLT LAMPS				
GOB3-A23C N34 LED	GOL3A LED	Amber	 110-120 Volts Full Volts (LED)	Blank
GOB3-G23C N34 LED	GOL3G LED	Green		Blank
GOB3-R23C N34 LED	GOL3R LED	Red		Blank

G ILLUMINATED BUTTON OR PUSH TO TEST PILOT LIGHT				
GOB4-A233C N34	GOL4A3	Amber	 110-120 Volts Full Volts	Blank
GOB4-B233C N34	GOL4B3	Blue		Blank
GOB4-C233C N34	GOL4C3	Clear		Blank
GOB4-F233C N34	GOL4F3	Frosted		Blank
GOB4-G233C N34	GOL4G3	Green		Blank
GOB4-R233C N34	GOL4R3	Red		Blank
GOB4-A230C N34	GOL4A	Amber	 110-120 Volts No Contact Blocks	Blank
GOB4-B230C N34	GOL4B	Blue		Blank
GOB4-C230C N34	GOL4C	Clear		Blank
GOB4-F230C N34	GOL4F	Frosted		Blank
GOB4-G230C N34	GOL4G	Green		Blank
GOB4-R230C N34	GOL4R	Red		Blank

G ILLUMINATED BUTTON OR PUSH TO TEST PILOT LIGHT WITH LED 110 VOLT LAMPS				
GOB4-A233C N34 LED	GOL4A3 LED	Amber	 110-120 Volts Full Volts (LED)	Blank
GOB4-G233C N34 LED	GOL4G3 LED	Green		Blank
GOB4-R233C N34 LED	GOL4R3 LED	Red		Blank
GOB4-A230C N34 LED	GOL4A LED	Amber	 110-120 Volts (LED) No Contact Blocks	Blank
GOB4-G230C N34 LED	GOL4G LED	Green		Blank
GOB4-R230C N34 LED	GOL4R LED	Red		Blank



PILOT LIGHTS FOR ATEX / CENELEC APPLICATIONS



Pilot Light ATEX



Illuminated Push Button ATEX

Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H₂, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III
Type 3, 4, 4X
ATEX-EEExd IIB + H2

LISTED - File E12379

Certified - File LR11714

PTB No. 03ATEX 1203 U

G PILOT LIGHTS				
CATALOG NUMBER		COLOR	CONTACT TYPE	NAME PLATE MARKING
LONG	EXTENDED			
GOB3-A23C N34CN	GOL3ACN	Amber	 110-120 Volts Full Volts	Blank
GOB3-B23C N34CN	GOL3BCN	Blue		Blank
GOB3-C23C N34CN	GOL3CCN	Clear		Blank
GOB3-F23C N34CN	GOL3FCN	Frosted		Blank
GOB3-G23C N34CN	GOL3GCN	Green		Blank
GOB3-R23C N34CN	GOL3RCN	Red		Blank

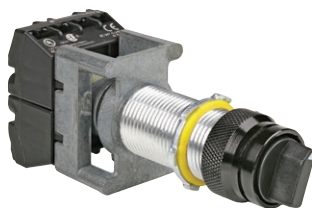
G PILOT LIGHTS WITH LED 110 VOLT LAMPS				
GOB3-A23C N34LEDCN	GOL3ALEDCN	Amber	 110-120 Volts Full Volts (LED)	Blank
GOB3-G23C N34LEDCN	GOL3GLEDCN	Green		Blank
GOB3-R23C N34LEDCN	GOL3RLEDCN	Red		Blank

G ILLUMINATED PUSH BUTTON OR PUSH TO TEST PILOT LIGHT				
GOB4-A233CN34CN	GOL4A3CN	Amber	 110-120 Volts Full Volts	Blank
GOB4-B233CN34CN	GOL4B3CN	Blue		Blank
GOB4-C233CN34CN	GOL4C3CN	Clear		Blank
GOB4-F233CN34CN	GOL4F3CN	Frosted		Blank
GOB4-G233CN34CN	GOL4G3CN	Green		Blank
GOB4-R233CN34CN	GOL4R3CN	Red		Blank
GOB4-A230CN34CN	GOL4A0CN	Amber	 110-120 Volts No Contact Blocks	Blank
GOB4-B230CN34CN	GOL4B0CN	Blue		Blank
GOB4-C230CN34CN	GOL4C0CN	Clear		Blank
GOB4-F230CN34CN	GOL4F0CN	Frosted		Blank
GOB4-G230CN34CN	GOL4G0CN	Green		Blank
GOB4-R230CN34CN	GOL4R0CN	Red		Blank

G ILLUMINATED PUSH BUTTON OR PUSH TO TEST PILOT LIGHT WITH LED 110 VOLT LAMPS				
GOB4-A233CN34LEDCN	GOL4A3LEDCN	Amber	 110-120 Volts Full Volts (LED)	Blank
GOB4-G233CN34LEDCN	GOL4G3LEDCN	Green		Blank
GOB4-R233CN34LEDCN	GOL4R3LEDCN	Red		Blank
GOB4-A230CN34LEDCN	GOL4A0LEDCN	Amber	 110-120 Volts (LED) No Contact Blocks	Blank
GOB4-G230CN34LEDCN	GOL4G0LEDCN	Green		Blank
GOB4-R230CN34LEDCN	GOL4R0LEDCN	Red		Blank



SELECTOR SWITCHES



Selector Switch

G SELECTOR SWITCH MAINTAINED CONTACT					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G025-2A3F	G05-2A3F N34	G0L52A3	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Right </div> </div>	Two position	OFF-ON and Blank on other side
G025-3C3G	G05-3C3G N34	G0L53C3	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Center </div> <div style="text-align: center;">Right </div> </div>	Three position	HAND-OFF-AUTO and Blank on other side
G025-4H8H	G05-4H8H N34	G0L54H8	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">1 </div> <div style="text-align: center;">2 </div> <div style="text-align: center;">3 </div> <div style="text-align: center;">4 </div> </div>	Four position	Blank

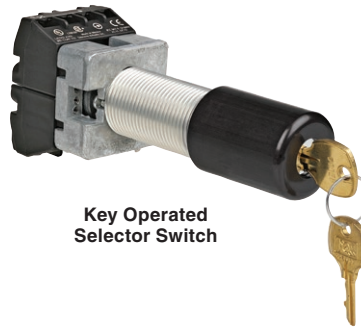
G SELECTOR SWITCH MAINTAINED CONTACT WITHOUT CONTACTS					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G025-2A0F	G05-2A0F N34	G0L52A	None	Two position	OFF-ON and Blank on other side
G025-3C0G	G05-3C0G N34	G0L53C	None	Three position	HAND-OFF-AUTO and Blank on other side
G025-4H0H	G05-4H0H N34	G0L54H	None	Four position	Blank

G SELECTOR SWITCH SPRING RETURN					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G026-3F	G06-3F N34	G0L63	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Right </div> </div>	Two position spring return to left 1 N.O./1 N.C	OFF-ON and Blank on other side
G027-6G	G07-6G N34	G0L76	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Center </div> <div style="text-align: center;">Right </div> </div>	Three position spring return to center from right or left 2 N.O.	HAND-OFF-AUTO and Blank on other side
G034-6G	G014-6G N34	G0L146	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Center </div> <div style="text-align: center;">Right </div> </div>	Three position spring return to center from right, maintain in left 2 N.O.	HAND-OFF-AUTO and Blank on other side
G035-6G	G015-6G N34	G0L156	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">Left </div> <div style="text-align: center;">Center </div> <div style="text-align: center;">Right </div> </div>	Three position spring return to center from left, maintain in right 2 N.O.	HAND-OFF-AUTO and Blank on other side

G SELECTOR SWITCH SPRING RETURN WITHOUT CONTACTS					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G026-0F	G06-0F N34	G0L6	None	Two position spring return to left	OFF-ON and Blank on other side
G027-0G	G07-0G N34	G0L7	None	Three position spring return to center from right or left	HAND-OFF-AUTO and Blank on other side
G034-0G	G014-0G N34	G0L14	None	Three position spring return to center from right, maintain in left	HAND-OFF-AUTO and Blank on other side
G035-0G	G015-0G N34	G0L15	None	Three position spring return to center from left, maintain in right	HAND-OFF-AUTO and Blank on other side



KEYED SELECTOR SWITCHES



Key Operated
Selector Switch

G KEY SELECTOR SWITCH MAINTAINED CONTACT											
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS						
SHORT	LONG	EXTENDED									
G028-2A3F22D	G08-2A3F22D N34	G0L82A322D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Right			Two position	OFF-ON and Blank on other side		
Left	Right										
G028-3C3G32D	G08-3C3G32D N34	G0L83C332D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Center</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Center	Right				Three position	HAND-OFF-AUTO and Blank on other side
Left	Center	Right									

G KEY SELECTOR SWITCH MAINTAINED CONTACT WITHOUT CONTACTS					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G028-2A0F22D	G08-2A0F22D N34	G0L82A022D	None	Two position	OFF-ON and Blank on other side
G028-3C0G32D	G08-3C0G32D N34	G0L83C032D	None	Three position	HAND-OFF-AUTO and Blank on other side

G KEY SELECTOR SWITCH SPRING RETURN											
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS						
SHORT	LONG	EXTENDED									
G056-2L3F22D	G036-2L3F22D N34	G0L36L322D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Right			Two position spring return to left 1 N.O./1 N.C.	OFF-ON and Blank on other side		
Left	Right										
G057-3C6G32D	G037-3C6G32D N34	G0L37C632D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Center</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Center	Right				Three position spring return to center from right or left 2 N.O.	HAND-OFF-AUTO and Blank on other side
Left	Center	Right									
G058-3L6G32D	G038-3L6G32D N34	G0L38L632D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Center</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Center	Right				Three position spring return to center from right, maintain in left 2 N.O.	HAND-OFF-AUTO and Blank on other side
Left	Center	Right									
G059-3R6G32D	G039-3R6G32D N34	G0L39R632D	<table style="display: inline-table; border: none;"> <tr> <td style="text-align: center;">Left</td> <td style="text-align: center;">Center</td> <td style="text-align: center;">Right</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> </tr> </table>	Left	Center	Right				Three position spring return to center from left, maintain in right 2 N.O.	HAND-OFF-AUTO and Blank on other side
Left	Center	Right									

G KEY SELECTOR SWITCH SPRING RETURN WITHOUT CONTACTS					
CATALOG NUMBER			CONTACT ARRANGEMENT	TYPE OF OPERATION	NAMEPLATE MARKINGS
SHORT	LONG	EXTENDED			
G056-2L0F22D	G036-2L0F22D N34	G0L36L022D	None	Two position spring return to left	OFF-ON and Blank on other side
G057-3C0G32D	G037-3C0G32D N34	G0L37C032D	None	Three position spring return to center from right or left	HAND-OFF-AUTO and Blank on other side
G058-3L0G32D	G038-3L0G32D N34	G0L38L032D	None	Three position spring return to center from right, maintain in left	HAND-OFF-AUTO and Blank on other side
G059-3R0G32D	G039-3R0G32D N34	G0L39R032D	None	Three position spring return to center from left, maintain in right	HAND-OFF-AUTO and Blank on other side

All Key Operators are furnished Keyed Different. If Keyed Alike is required substitute letter "A" for letter "D" in catalog number.

Keys are removable in Left position on 2 position selectors and in Center position on 3 position selectors. For key removal in ALL positions change "22" in 2 position to "20" and "32" in 3 position to "30".



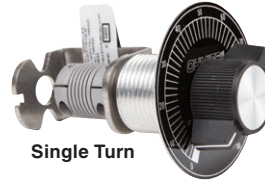
SPECIALTY OPERATORS



Snap Switch



Multi Turn



Single Turn

Potentiometer and Rheostat
(electrical device not included)



Rotary or Motor Shaft



Capillary Seal



Reset

G SNAP SWITCH OPERATOR					
CATALOG NUMBER ^①		TYPE SWITCH	RATINGS		NAMEPLATE MARKING ^②
SHORT ^④	LONG		125 VAC	250 VAC	
G030-31F	G010-31F N34	SPST	10 Amp	5 Amp	Off/On or Blank
G030-33F	G010-33F N34	SPDT (3-way)	10 Amp	10 Amp	Off/On or Blank

Recognized

G ROTARY OR MOTOR SHAFT OPERATOR			
CATALOG NUMBER ^{① ⑤}	SHAFT DIAMETER	TYPE	DESCRIPTION ^①
G016 ^⑤ G018 ^⑤	1/4" 3/8"	Male-Female	Rotary or motor shaft operator used to transfer rotary motion through wall of explosion proof enclosure.
G017 ^⑤ G019 ^⑤ G0-51 ^⑤	1/4" 3/8" 1/2"	Male-Male	

G POTENTIOMETERS AND RHEOSTATS OPERATOR				
CATALOG NUMBER ^①			TYPE	DESCRIPTION ^①
SHORT ^④	LONG	EXTENDED		
G0133	G0113 N34	G0L113	Single turn	Control operator for use with potentiometers or rheostats having a 1/4" diameter by 7/8" long shaft. NOT SUPPLIED
G0134	G0114 N34	G0L114	Twenty turn	

UL File E12379, VI 518

Short UL only, Long & Extended UL & CSA

G CAPILLARY SEALS			
CATALOG NUMBER ^①	CAPILLARY SIZE	TYPE	DESCRIPTION ^①
G0-11388-078 ^⑤	0.078± .002 Dia.	Accepts Capillary With Max. Bulb Dia. of 9/16".	Use where a mechanical means for passing a thermostat or similar capillary tube through the wall of a hazardous location enclosure.
G0-11372-093 ^⑤	0.093± .002 Dia.		

G RESET OPERATOR				
CATALOG NUMBER ^①			NAMEPLATE ^②	TYPE OPERATION ^①
SHORT ^④	LONG	EXTENDED		
G040-KX2C	GO-RST	G0LRST	Reset or Blank	Black plunger type reset operator, supplied with a 6" long fiber extension which can be removed or cut to desired length.

UL File E150827

Long & Extended UL & CSA

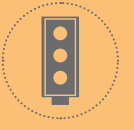
① Refer to Catalog, Accessories, Area Classification, and Dimensional Pages for more information.

② Nameplates are double sided.

③ G040 series reset button is suitable for Class II E, F, and G locations only.

④ Short style operators are suitable for Class I Group C & D, Class II Group E,F,G only.

⑤ These devices are not UL or CSA approved.



OPERATOR BODIES



Style 1 - GCS-16



Style 2 - GCS-163



Style 3 - SWBC-16

Class I, Div. 1 & 2, Groups C, D
Class I, Zones 1 & 2, Groups IIB, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III

UL LISTED - File E10514

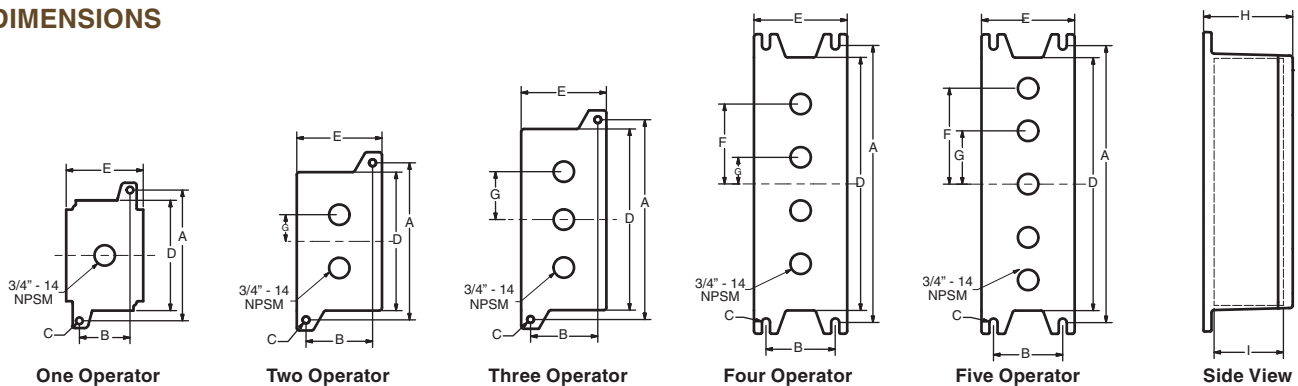
SP Certified - File LR11716

GCS STYLE 1 – WITH DRILLED AND TAPPED OPERATOR HOLES IN COVER ①												
CATALOG	NO. OF OPERATOR HOLES	CONSISTS OF		DIMENSIONS								
		BOX	COVER	A	B	C	D	E	F	G	H	I
GCS-13	1	SWB-13	X-60	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-3/16" (148)	3-5/8" (92)	—	—	3-1/2" (89)	2-9/16" (65)
GCS-14	1	SWB-14	X-60	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-1/4" (133)	3-5/8" (92)	—	—	4-5/16" (110)	3-3/8" (86)
GCS-15	2	SWB-15	X-61	7-3/8" (187)	3-1/8" (79)	5/16" (8)	6-1/2" (165)	4" (102)	—	1.25" (31.8)	4-1/4" (108)	3-1/4" (82)
GCS-16	3	SWB-16	X-62	9-3/8" (238)	3-3/16" (81)	5/16" (8)	8-1/2" (216)	4" (108)	—	2.25" (57.2)	4-1/4" (105)	3-1/4" (82)
GCS-83	4	SWB-83②	X-84	13" (330)	3-1/4" (82)	3/8" (10)	11-7/8" (302)	4-3/8" (111)	3.75" (95.3)	1.25" (31.8)	4-3/16" (106)	3-1/4" (82)
GCS-85	5	SWB-83②	X-85	13" (330)	3-1/4" (82)	3/8" (10)	11-7/8" (302)	4-3/8" (111)	4.50" (114.3)	2.50" (63.5)	4-3/16" (106)	3-3/16" (81)
GCS STYLE 2 – WITH DRILLED AND TAPPED OPERATOR HOLES IN BACK OF BOX ①												
GCS-131	1	SWB-13	X-10	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-3/16" (148)	3-5/8" (92)	—	—	3-1/2" (89)	2-9/16" (65)
GCS-141	1	SWB-14	X-10	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-1/4" (133)	3-5/8" (92)	—	—	4-5/16" (110)	3-3/8" (86)
GCS-152	2	SWB-15	X-11	7-3/8" (187)	3-1/8" (79)	5/16" (8)	6-1/2" (165)	4" (102)	—	1.25" (31.8)	4-1/4" (108)	3-1/4" (82)
GCS-163	3	SWB-16	X-12	9-3/8" (238)	3-3/16" (81)	5/16" (8)	8-1/2" (216)	4" (102)	—	2.25" (57.2)	4-1/4" (108)	3-1/4" (82)
GCS-834	4	SWB-83②	X-83	13" (330)	3-1/4" (82)	3/8" (10)	11-7/8" (302)	4-3/8" (111)	3.75" (95.3)	1.25" (31.8)	4-3/16" (106)	3-1/4" (82)
GCS-835	5	SWB-83②	X-83	13" (330)	3-1/4" (82)	3/8" (10)	11-7/8" (302)	4-3/8" (111)	4.50" (114.3)	2.50" (63.5)	4-3/16" (106)	3-3/16" (81)
SWB STYLE 3 – BLANK BOX AND COVER – NO OPERATOR HOLES ①												
SWBC-13	None	SWB-13	X-10	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-3/16" (148)	3-5/8" (92)	—	—	3-1/2" (89)	2-9/16" (65)
SWBC-14	None	SWB-14	X-10	6-1/8" (156)	2-3/8" (60)	5/16" (8)	5-1/4" (133)	3-5/8" (92)	—	—	4-5/16" (110)	3-3/8" (86)
SWBC-15	None	SWB-15	X-11	7-3/8" (187)	3-1/8" (79)	5/16" (8)	6-1/2" (165)	4" (102)	—	—	4-1/4" (108)	3-1/4" (82)
SWBC-16	None	SWB-16	X-12	9-3/8" (238)	3-3/16" (81)	5/16" (8)	8-1/2" (216)	4" (111)	—	—	4-1/4" (108)	3-1/4" (82)
SWBC-83	None	SWB-83②	X-83	13" (330)	3-1/4" (82)	3/8" (10)	11-7/8" (302)	4-3/8" (111)	—	—	4-3/16" (106)	3-3/16" (81)

① All GCS and SWBC Series are cataloged without conduit openings. Specify conduit size and location when ordering.

② GCS-83, GCS-85, GCS-834, and GCS-835 are provided with four mounting lugs.

DIMENSIONS



Notes: Use short style operators for cover devices and long style operators for back of box mounted devices when panel mounting. Style 2 only. Style 2 control stations with holes in back of box are typically used for panel mounting where additional length of long style operators is required.



CONTROLS
G SERIES

ACCESSORIES / REPLACEMENT PARTS



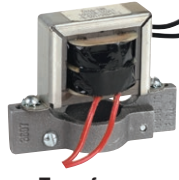
Rubber Boot



Hole Plug



Trim Locknut Spacer



Transformer GO-8670



Push Button Lockout GO-8665



Push Button Lockout GO-10502

ACCESSORIES		
CATALOG NUMBER	USED ON OPERATOR TYPE	DESCRIPTION
GO-8176-1	GO1, GO21, GOL1	Protective rubber boot (Black)
GO-8176-2	GO1, GO21, GOL1	Protective rubber boot (Red)
GO-8176-3	GO1, GO21, GOL1	Protective rubber boot (Green)
GO-8177	3/4" NPSM	Hole plug
GO-8222	1/4" Thick, Used as external spacer.	Trim locknut spacer
GO-8670-32	GOB3, GOL3	Transformer 220V-110V
GO-8670-34	GOB3, GOL3	Transformer 440V-110V
GO-8671-42	GOB4, GOL4	Transformer 220V-110V
GO-8671-44	GOB4, GOL4	Transformer 440V-110V
GO-8665	GO2, GO22, GOL2, GOR11	Push button lockout
GO-10502	GO1, GO21, GOL1	Push button lockout
GO567-LOK	GO & GOL5-6-7-14-15-26-27-34-35	Selector switch lockout
GO-RL	For use with GO's	Sealing lockout
GO-9824	GO40, GO-RST, GOLRST	Reset plate
B7PLR220	GOB3, GOL3, GOB4, GOL4	Resistor kit 220V-110V
B7PLR440	GOB3, GOL3, GOB4, GOL4	Resistor kit 440V-110V
B7PLR550	GOB3, GOL3, GOB4, GOL4	Resistor kit 550V-110V
KIT-GOTB	GOB3, GOL3, GOB4, GOL4	Terminal Block, 2 Point



Selector Switch Lockout



Reset Plate



Sealing Locknut GO-RL



2 Pt. Terminal Block KIT-GOTB

REPLACEMENT LENS GUARD ASSEMBLIES - "GO" PILOT LIGHTS		
CATALOG NUMBER		LENS COLOR
GOL3/GOB3 SERIES	GOL4/GOB4 SERIES	
GO15726-A	KIT-354	Amber
GO15726-B	KIT-355	Blue
GO15726-C	KIT-356	Clear
GO15726-F	KIT-357	Frosted
GO15726-G	KIT-358	Green
GO15726-R	KIT-359	Red



Lens Guard Assembly

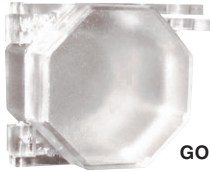
REPLACEMENT BLANK NAMEPLATES - "GO" OPERATORS	
CATALOG NUMBER	DESCRIPTION
YOKK-9484-2	Push button pilot lights
YOKK-10291	Double push button
YOKK-10286	2 Position selector switch
YOKK-10287	3 Position selector switch
YOKK-10285	4 Position selector switch



"GO" Legend Plate



ACCESSORIES / REPLACEMENT PARTS



GOMLOCK



Standard Mushroom
Momentary &
Maintained



Jumbo Mushroom
Momentary

ACCESSORIES

CATALOG NUMBER	FOR USE ON OPERATOR TYPE	DESCRIPTION
GOMLOCK	GOM1-GOM21-GOML-G01-G021-GOL1	Lock Out for Standard Size Momentary & Maintained Push Buttons
GOMSTG	G01-G021-GOL1	Standard Size Momentary Mushroom Head (Green)
GOMSTR	G01-G021-GOL1	Standard Size Momentary Mushroom Head (Red)
GOMSTK	G01-G021-GOL1	Standard Size Momentary Mushroom Head (Black)
GOMJUR	G01-G021-GOL1	Jumbo Size Momentary Mushroom Head (Red)
KIT-GOMR	GOM1-GOM21-GOML	Standard Size Maintained Mushroom Head (Red)
KIT-GOMG	GOM1-GOM21-GOML	Standard Size Maintained Mushroom Head (Green)
KIT-GOMK	GOM1-GOM21-GOML	Standard Size Maintained Mushroom Head (Black)
KIT-GOMRJ	GOM1-GOM21-GOML	Jumbo Size Maintained Mushroom Head (Red)
GOMSRD	GOM1-GOM21-GOML	Shroud for Standard Size Maintained Mushroom Head (Yellow)

Dimensions — Standard Mushroom — 1-1/2" Diameter, Jumbo Mushroom Maintained — 1-15/16" Diameter, Jumbo Mushroom Momentary — 2-1/4" Diameter

Replacement Parts



Incandescent
Lamp



LED Lamp

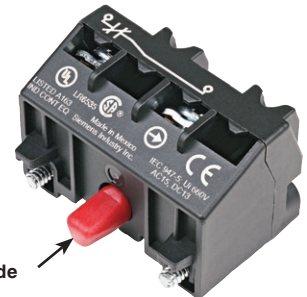
PILOT LIGHT LAMPS

CATALOG NUMBER	VOLTS	WATTS	AMPS	STYLE
YOSY120MB	120	3	0.025	GOB3/GOL3
YOSY24MB	24	1.7	0.073	GOB4/GOL4

PILOT LIGHT LED LAMPS

CATALOG NUMBER	VOLTS	COLOR
GOLED-A110	110 VAC/DC	Amber
GOLED-B110	110 VAC/DC	Blue
GOLED-G110	110 VAC/DC	Green
GOLED-R110	110 VAC/DC	Red
GOLED-W110	110 VAC/DC	White
GOLED-W24	24 VAC/DC	White
GOLED-W240 ^①	220/240 VAC	White

^① Not for use with ATEX operators.



Color Code

Finger Safe with Gold Flashing as Standard

GO STANDARD CONTACT BLOCKS*

CATALOG NUMBER	DESCRIPTION	COLOR CODE
GO-8673-BJK	1 N.O.	WHITE
GO-8673-BJJ	1 N.C.	RED
GO-8673-BJH	1 N.O. Early make	GREEN
GO-8673-BJE	1 N.C. Late break	YELLOW
GO-8673-BJKJ	1 N.O./1 N.C.	BLACK



DIMENSIONS

G DIMENSIONS					
SERIES	FIGURE	A	B	C	D
G01	1	15/16"(24)	1-3/4"(44)	3-7/16"(87)	1-1/4"(32)
G02	3	13/16"(21)	2"(51)	3-3/4"(95)	—
G0B3	4	1-1/8"(29)	2"(51)	2-3/4"(70)	1-9/16"(40)
G0B4	5	2-3/8"(60)	2-1/4"(57)	4"(101)	1-13/16"(46)
G05	9	1-5/16"(33)	1-3/4"(44)	3-7/16"(87)	1-1/4"(32)
G06,G07,G014,G015	9	1-5/16"(33)	1-3/4"(44)	3-13/16"(97)	1-1/4"(32)
G08	10	2-9/16"(65)	1-3/4"(44)	3-1/2"(89)	1-1/4"(32)
G010	11	1-5/16"(33)	1-3/4"(44)	4"(101)	1-1/4"(32)
G016,G018	7	1-1/4"(32)	1"(25)	13/16"(21)	1-1/2"(38)
G017,G019	7	13/16"(21)	1"(25)	13/16"(21)	1-1/2"(38)
G021	1	15/16"(24)	3/4"(19)	2-7/16"(62)	1-1/4"(32)
G022	3	13/16"(21)	1"(25)	2-3/4"(70)	—
G025	9	1-5/16"(33)	3/4"(19)	2-7/16"(62)	1-1/4"(32)
G026,G027,G034,G035	9	1-5/16"(33)	3/4"(19)	2-13/16"(71)	1-1/4"(32)
G030	11	1-5/16"(33)	3/4"(19)	3"(76)	1-1/4"(32)
G036,G037,G038,G039	10	2-9/16"(65)	1-3/4"(44)	3-7/8"(98)	1-1/4"(32)
G040	2	15/16"(24)	11/16"(17)	1"(25)	1-1/4"(32)
G050	7	1-1/2"(38)	2"(51)	6-5/16"(160)	2-5/16"(59)
G051	7	2-1/4"(57)	1-5/8"(41)	5-9/16"(141)	1"(25)
G056,G057,G058,G059	10	2-9/16"(65)	3/4"(19)	2-7/8"(73)	1-1/4"(32)
G0113,G0114	6	1"(25)	2"(51)	3-5/8"(67)	1-13/16"(46)
G0133,G0134	6	1"(25)	1"(25)	2-5/8"(67)	1-13/16"(46)
GO-11388-078	8	1-5/16"(33)	3/4"(19)	N/A	1-1/2"(38)
GO-11372-093	8	1-5/16"(33)	3/4"(19)	N/A	1-1/2"(38)
GOR11	3	13/16"(21)	2"(51)	4-1/8"(105)	—
GO-RST	2	15/16"(24)	2-5/16"(59)	2-3/8"(+6")(60)	1-1/4"(32)
GOM1	1	1-7/8"(48)	1-7/16"(37)	4"(101)	1-5/8"(41)
EXTENDED LENGTH OPERATORS:					
GOL1	1	15/16"(24)	2-3/4"(70)	4-7/16"(113)	1-1/4"(32)
GOL2	3	13/16"(210)	2-3/4"(70)	4-1/2"(114)	—
GOL3	4	1-1/8"(29)	2-3/4"(70)	3-3/8"(86)	1-9/16"(40)
GOL4	5	2-3/8"(60)	2-3/4"(70)	4-5/8"(117)	1-13/16"(46)
GOL5	9	1-5/16"(33)	2-3/4"(70)	4-7/16"(113)	1-1/4"(32)
GOL6,GOL7,GOL14,GOL15	9	1-5/16"(33)	2-3/4"(70)	4-13/16"(122)	1-1/4"(32)
GOL8	10	1-9/16"(40)	2-3/4"(70)	4-1/2"(114)	1-1/4"(32)
GOL36,GOL37,GOL38,GOL39	10	1-9/16"(40)	2-3/4"(70)	4-7/8"(124)	1-1/4"(32)
GOL113,GOL114	6	1"(25)	3"(76)	4-5/8"(117)	1-13/16"(46)
GOLRST	2	15/16"(24)	2-3/4"(70)	3"(+6")(76)	1-1/4"(32)

NOTE: All operators are for installation into a 3/4"-14 NPSM opening, except G050, which is used in 1-1/4"-11-1/2 NPSM and GO-11388-078 / GO-11372-093 which are for use in a 3/4"-14 NPT opening.

SPECIAL OPERATORS

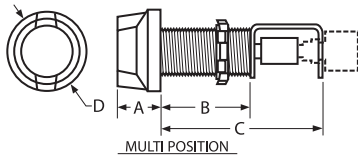


FIGURE 6

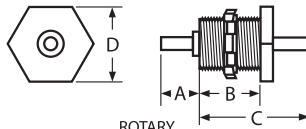


FIGURE 7

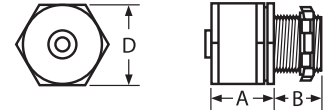


FIGURE 8

SELECTOR SWITCHES

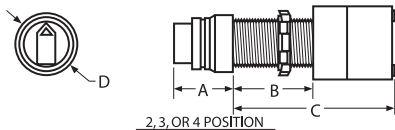


FIGURE 9

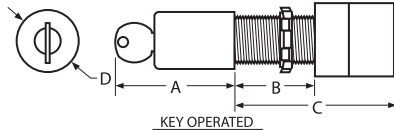


FIGURE 10

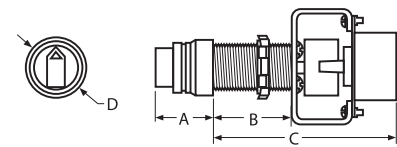


FIGURE 11

PUSH BUTTONS

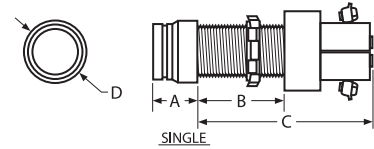


FIGURE 1

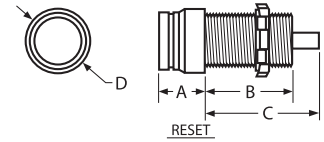


FIGURE 2

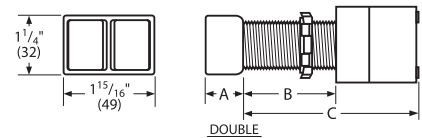


FIGURE 3

PILOT LIGHTS

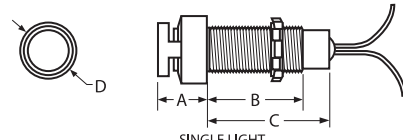


FIGURE 4

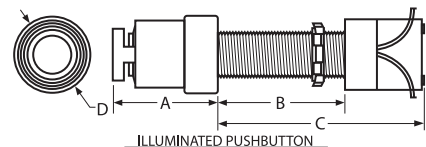


FIGURE 5



NOTES

Lined area for taking notes, consisting of multiple horizontal lines.

