

CSW30H Series (30mm) Hazardous Duty General Standards

WEG hazardous duty series CSW30H also offers a wide selection of operators and pilot devices for hazardous duty applications (Class 1, Division 2 and Zone 2). This series offers a wide selection of hermetically sealed reed and factory sealed contact blocks for superior corrosion resistance.

- NEMA 4, IP65 Rated¹
- Fits 1-13/64 (30.5mm) hole without notch required
- Contact blocks snap-in (fast & easy assembly)
- Up to 8 contact blocks for non-illuminated operators and up to 4 contact blocks for illuminated operators
- LED lamps with built-in leakage protection
- Same simple part numbering system as 22mm series

WEG Hazardous duty Pilots Devices are specially engineered for Class 1, Division 2 and Zone 2.

Wide selection of hermetically sealed reed and factory sealed contact block.

An all-polyester construction with nickel-plated or stainless steel metal parts for superior corrosion resistance.

Logic Reeds are hermetically sealed, Providing needed dependability for harsh environments.

Logic Reeds provide great operation for low power level (resistive loads only), especially PLC inputs.

Added Security - Optional Features

Rubber Boots add an additional layer of protection from corrosive chemicals left behind from hands on operations or washdown environments.

Added Security - Standard Features

All Hazardous duty Push Buttons comes standard with a screw tightening mounting bracket to ensure the contact blocks remain tight to the operator



- General Information
- Circuit Protection
- Disconnect Switches
- Motor Protectors
- Contactors
- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights**
- Terminal Blocks
- Power Factor Correction
- Appendix A
- Appendix B

Pushbuttons and Pilot Lights

CSW30H Series (30mm) Hazardous Duty

Pushbuttons

Types

- BF - Flush
- BS - Extended
- BC - Mushroom
- BGA - Recessed
- BGAI - Illuminated Recessed
- BSI - Illuminated Extended
- BCI - Illuminated Mushroom

MULTIPLIER SYMBOL FOR CSW30H SERIES - Z55

CSW30H-

____ Voltage (see Voltage Code)
 ____ Color (see Color Code)

NON-ILLUMINATED FLUSH	NON-ILLUMINATED (Extended)	NON-ILLUMINATED MUSHROOM (40mm HEAD)	NON-ILLUMINATED RECESSED
CSW30H - ____ <ul style="list-style-type: none"> ○ BF0 ● BF1 ● BF2 ● BF3 ● BF4 ● BF5  <p style="text-align: right;">LIST PRICE \$31</p>	CSW30H - ____ <ul style="list-style-type: none"> ○ BS0 ● BS1 ● BS2 ● BS3 ● BS4 ● BS5  <p style="text-align: right;">LIST PRICE \$31</p>	CSW30H - ____ <ul style="list-style-type: none"> ● BC1 ● BC2 ● BC5  <p style="text-align: right;">LIST PRICE \$42</p>	CSW30H - ____ <ul style="list-style-type: none"> ○ BGA0 ● BGA1 ● BGA2 ● BGA3 ● BGA4 ● BGA5  <p style="text-align: right;">LIST PRICE \$37</p>
<p>* Illuminated operators are supplied with LED block. To complete selection, replace “**” with desired voltage: E26 (24Vac/Vdc), D61 (120Vac/Vdc) or D66 (240Vac/Vdc).</p>			
ILLUMINATED EXTENDED	ILLUMINATED MUSHROOM (40mm HEAD)	ILLUMINATED RECESSED	
CSW30H - ____ * <ul style="list-style-type: none"> ○ BSI0 ● BSI1 ● BSI2 ● BSI3 ● BSI4  <p style="text-align: right;">LIST PRICE \$110</p>	CSW30H - ____ * <ul style="list-style-type: none"> ○ BCI0 ● BCI1 ● BCI2 ● BCI3 ● BCI4  <p style="text-align: right;">LIST PRICE \$120</p>	CSW30H - ____ * <ul style="list-style-type: none"> ○ BGAI0 ● BGAI1 ● BGAI2 ● BGAI3 ● BGAI4  <p style="text-align: right;">LIST PRICE \$115</p>	

Note: Contact blocks ordered separately. See page 326.

Emergency-Stop Pushbuttons

CSW30H-

- Types
- G - Twist release
 - P - Pull release

CSW30H-

____ Voltage (see Voltage Code)
 ____ Color (see Color Code)

E-STOP - TWIST RELEASE	E-STOP - PUSH PULL	PILOT LIGHTS
<ul style="list-style-type: none"> ● CSW30H-BEG ● CSW30H-BEG2  <p style="text-align: right;">LIST PRICE \$86</p>	<ul style="list-style-type: none"> ● CSW30H-BEP ● CSW30H-BEP2  <p style="text-align: right;">LIST PRICE \$80</p>	<ul style="list-style-type: none"> ○ SD0 ● SD1 ● SD2 ● SD3 ● SD4  <p style="text-align: right;">LIST PRICE \$107</p>

Code Chart

Color	Clear/White	Red	Green	Yellow	Blue	Black
Code	0	1	2	3	4	5
Symbol	○	●	●	●	●	●

LED Block Voltage	
E26	24Vac/Vdc
D61	120Vac/Vdc
D66	240Vac/Vdc

Note: Contact blocks ordered separately. See page 326

Selector Switches

Types
CK - Knob
CA - Lever

CSW30H-

No. of Positions
2 - Two positions
3 - Three positions

Angle
45 - 45°
90 - 90°

Handle
F - Maintained
R - Spring return
RE - Spring return from left
RD - Spring return from right

KNOB	LEVER	POSITION	DIAGRAM
 LIST PRICE Maintained \$44 Spring Return \$62.00	 LIST PRICE Maintained \$44 Spring Return \$62		
CSW30H-CK2F90	CSW30H-CA2F90		1
CSW30H-CK2R90	CSW30H-CA2R90		1
CSW30H-CK3F45	CSW30H-CA3F45		2 & 3
CSW30H-CK3R45	CSW30H-CA3R45		2 & 3
CSW30H-CK3RE45	CSW30H-CA3RE45		2 & 3
CSW30H-CK3RD45	CSW30H-CA3RD45		2 & 3

Catalog Number	List Price	Multiplier
CSW30-FCR	\$15	Z5
CSW30-ECR	\$15	
CSW30-PLCR	\$15	

Note: Contact blocks ordered separately. See page 326

DIAGRAM 1 - Hermetically & Factory Sealed Block

HANDLE POSITION		Auxiliary Contact	Mounting Position
I	II		
0	X	NO	Either
X	0	NC	Either
0	X	NO & NC	Either
X	0		

X = CLOSED
0 = OPEN

DIAGRAM 2 - Factory Sealed Block

HANDLE POSITION			Auxiliary Contact	Mounting Position
I	0	II		
X	0	0	NO & NC	Left
0	X	0		
0	0	X	NO & NC	Right
0	X	0		

DIAGRAM 3 - Hermetically Sealed Block

HANDLE POSITION			Auxiliary Contact	Mounting Position
I	0	II		
X	0	0	NO	Left
0	0	X	NO	Right
0	X	X	NC	Left
X	X	0	NC	Right
X	0	X	2NO	wired in parallel
0	X	0	2NC	wired in series
X	0	X	early make	Either
0	X	X	late break	Left
X	X	0	late break	Right

Pushbuttons and Pilot Lights

CSW30H Series (30mm) Hazardous Duty

Factory Sealed / Hermetically Sealed Contact Blocks

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B



Auxiliary Contact Blocks - Factory Sealed (720VA) Product Description	Catalog Number	List Price	Multiplier
Linear devices - 1NO & 1NC	BC11FS-CSW30H	\$120	Z55
For rotary devices only - 1NO & 1NC	BC11FSR-CSW30H		

Auxiliary Contact Blocks - Hermetically Sealed (360VA inductive) Product Description			
Power reed - 1NO	BC10PR-CSW30H	\$95	Z55
Power reed - 1NC	BC01PR-CSW30H		
Power reed - 2NO	BC20PR-CSW30H	\$150	
Power reed - 2NC	BC02PR-CSW30H		
Power reed - 1NO & 1NC	BC11PR-CSW30H		

Auxiliary Contact Blocks - Hermetically Sealed (180VA inductive) Product Description			
Mid-power reed - 1NO	BC10MP-CSW30H	\$75	Z55
Mid-power reed - 1NC	BC01MP-CSW30H		
Mid-power reed - 2NO	BC20MP-CSW30H	\$130	
Mid-power reed - 2NC	BC02MP-CSW30H		
Mid-power reed - 1NO & 1NC	BC11MP-CSW30H		

Auxiliary Contact Blocks - Hermetically Sealed (40VA inductive / 100W resistive) Product Description			
Mid-logic reed - 1NO	BC10ML-CSW30H	\$45	Z55
Mid-logic reed - 1NC	BC01ML-CSW30H		
Mid-logic reed - 2NO	BC20ML-CSW30H	\$70	
Mid-logic reed - 2NC	BC02ML-CSW30H		
Mid-logic reed - 1NO & 1NC	BC11ML-CSW30H		

Auxiliary Contact Blocks - Hermetically Sealed (40W resistive) Product Description			
Logic reed - 1NO	BC10LR-CSW30H	\$28	Z55
Logic reed - 1NC	BC01LR-CSW30H		

Technical Data

FACTORY SEALED: Contact Blocks are Certified as "Explosion Proof". Devices employing this method of protection are designed so that all electrical parts are enclosed in a switch housing that is capable of withstanding, without damage, an explosion of a specified gas or vapor/air mixture which may occur during the operation of the switch. Further, the explosion internal to the switch body is controlled so that the hot gases are extinguished and cooled before they are allowed to escape to the surrounding atmosphere.

HERMETICALLY SEALED: Contact Blocks are Certified as "Non-Incendive". Devices employing this method of protection are designed so that all electrical parts are a bonded part of the switch housing that forms an arcing chamber that is evacuated of all oxygen, filled with an inert gas, and then sealed to prohibit the exchange of gases with the surrounding environment. These devices are incapable of igniting the surrounding gases or vapor/air mixtures under normal operation. Devices of this type are suitable for use in Div. 2/ Zone 2 applications. Hermetically Sealed contact blocks are also extremely useful for switching low energy circuits or circuits applied in atmospheres containing oxidizing agents and pollutants that might effect the performance of silver switching and metal contact elements. Hermetically Sealed Switch performance is consistent and repeatable in almost any environment.

DIELECTRIC STRENGTH (MECHANICAL CONTACTS) 2200V for 1 Minute

Factory Sealed Contact Block					
Class I Div. 2 Gr. B,C, & D / Zone 2 Gr. IIB +H2					
	Utilization Category		Make Rating	Break Rating	lth-Thermal Current
	IEC	UL			
AC	AC-15	A600	7200VA	720VA	10A
DC	DC-13	Q300	69VA	69VA	2.5A

*NOTE: For AC voltage below 72V AC the max. allowed switching current is 10A = lth.
For DC voltages below 28V DC the max. allowed switching current is 2.5A = lth.
For switching applications below 24V/40mA, Hermetic REED contacts are recommended.*

Hermetically Sealed Mid-Power Reed Contact Block					
Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC					
	Utilization Category		Make Rating	Break Rating	lth-Thermal Current
	IEC	UL			
AC	AC-15	C300	1800VA	180VA	2.5A
DC	DC-13	Q150	69VA	69VA	2.5A

*NOTE: For AC voltage below 72VAC the max. allowed switching current is 2.5A = lth.
For DC voltages below 28VDC the max. allowed switching current is 2.5A = lth.
Suitable for switching DRY Circuits and Low Energy Circuits (Less than 24V-40mA).*

Hermetically Sealed Power Reed Contact Block					
Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC					
	Utilization Category		Make Rating	Break Rating	lth-Thermal Current
	IEC	UL			
AC	AC-15	B300	3600VA	360VA	5A
	AC-15	C600	1800VA	180V	2.5A
DC	DC-13	Q300	69VA	69VA	2.5A

*NOTE: For AC voltage below 72V AC the max. allowed switching current is 5A = lth.
For DC voltages below 28V DC the max. allowed switching current is 2.5A = lth.
Suitable for switching DRY Circuits and Low Energy Circuits (Less than 24V-40mA).*

Hermetically Sealed logic reed Contact Block					
Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC					
	Utilization Category		Inductive	Resistive	lth-Thermal Current
	IEC	UL			
AC		220V Max.	N/A	40 Watt	2A

Suitable for switching DRY Circuits and Low Energy Circuits (Less than 24V-40mA).

Hermetically Sealed mid-logic reed Contact Block					
Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC					
	Utilization Category		Inductive	Resistive	lth-Thermal Current
	IEC	UL			
AC	AC-12	250V Max.	40VA	100 Watt	3A

Suitable for switching DRY Circuits and Low Energy Circuits (Less than 24V-40mA).

Indicating Lights	
Light Unit	T-Code
FV Incandescent Lights	T4A
FV LED Lights	T6 [No marking required]
Resistor Lights	T3C
Light Unit	T-Code
Resistor LED Lights	T6
Transformer Lights Incd. & LED	T4A
Multi-Voltage 20V-240V LED Light	T4A

Materials	
Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)	Seals
Operator Housings	Neoprene Gaskets
Operator Caps and Handles –	Thermoplastic – Molded Neoprene and alloy derivatives
Non-Illuminated (Glass Reinforced Grades)	BUNA N – Rubber – Teflon Coated
Mounting Rings and Nuts	Thermoplastic – Elastomer Molded Seals
Thrust Washer	Fluorosilicone – Boots
Trim Washer	Metal: Stainless Steel
High Impact Polycarbonate (UV Stabilized for outdoor use)	Push Pull Bushings
Pilot Light Lens	Internal tubes for Maintained Devices
Transparent PB and Mushroom Caps	Detents for Maintained Devices
Custom Polymers	Stainless Steel Springs and Screws throughout
Certain CAM and Bearing parts are Teflon, Silicone, & Moly-Disulfide Impregnated for improved wearability	Aluminum
Fluorosilicone and Thermoplastic	Optional Mounting Nut
Neoprene Boot Accessories	

Environmental Ratings	
Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65	
Operating Temperature	
-40 to +131° F (-40 to +55° C)	
Storage Temperature	
-40 to +185° F (-40 to +85° C)	
Operating environments below freezing temperatures are assumed to be absent of freezing liquids or pollutants.	

Terminal & Wiring Consideration	
Wire- AWG 22-12 CU	
(Copper Only – Solid & Stranded) [.5 ~ 4 mm2]	
One or Two wires permitted per termination	
Recommended Tightening Torque	
7 lb-in (+3.0/-0.0 lb-in) — [.8 Nm]	

Pushbuttons and Pilot Lights

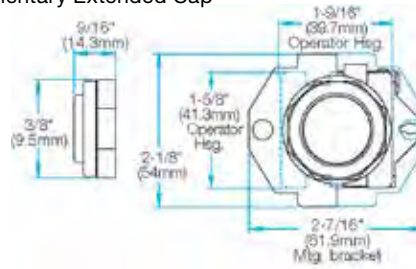
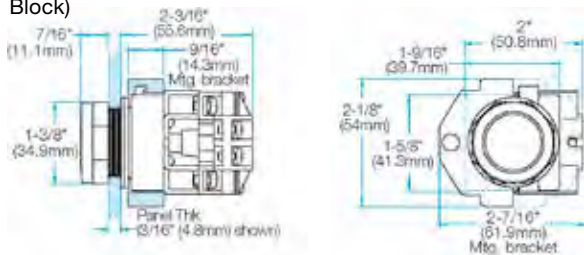
CSW30H Series (30mm) Hazardous Duty

Momentary Non-Illuminated H-Line Push Buttons

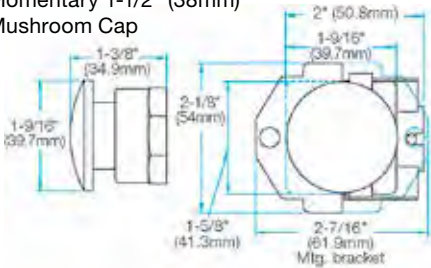
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

Non-Illuminated Operator
(shown with Flush Cap & Factory Sealed Contact Block)

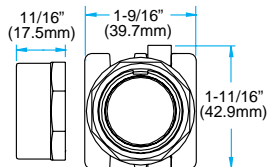
Momentary Extended Cap



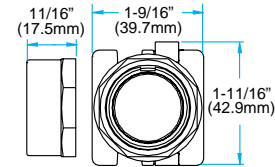
Momentary 1-1/2" (38mm)
Mushroom Cap



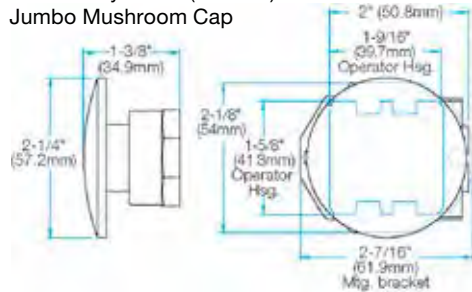
Momentary Guarded
Flush Cap



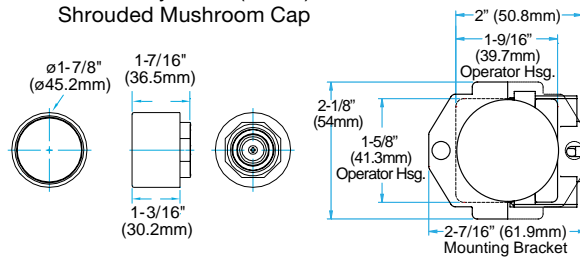
Momentary Guarded
Extended Cap



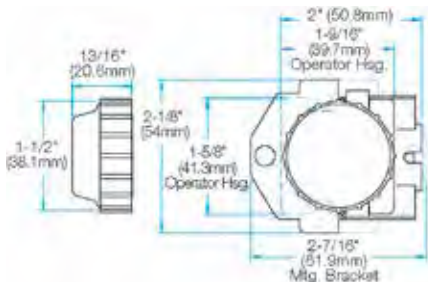
Momentary 2-1/4" (57.2mm)
Jumbo Mushroom Cap



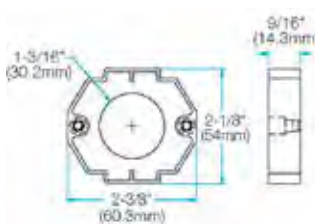
Momentary 1-1/2" (38mm)
Shrouded Mushroom Cap



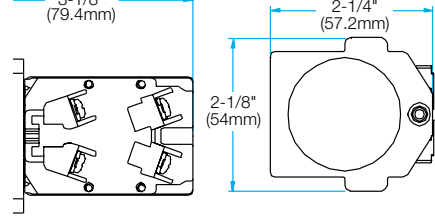
Momentary Fluorosilicone
Rubber Boot



Non-Illuminated Push Button
Mounting Bracket



Momentary 2-1/4" (57.2mm)
Shrouded Jumbo Mushroom Cap



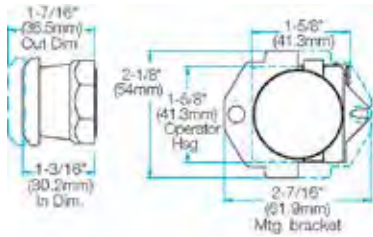
I Thk.
" (4.8mm) shown

- General Information
- Circuit Protection
- Disconnect Switches
- Motor Protectors
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- Overloads
- Enclosed Starters
- Relays
- Pushbuttons and Pilot Lights
- Terminal Blocks
- Power Factor Correction
- Appendix A
- Appendix B

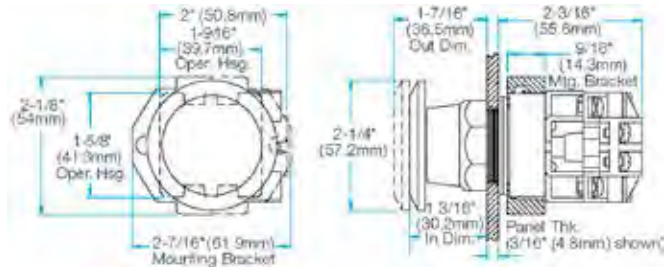
Maintained non-Illuminated H-Line Push Buttons

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

2-Position Push-Pull Maintained
1-1/2" (38mm) Mushroom Cap



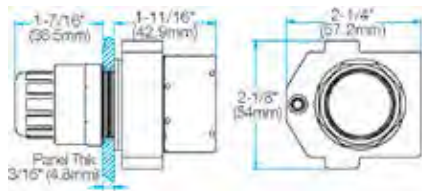
2-Position Push-Pull Maintained Operator
(shown with 2-1/4" (57.2mm) Jumbo Mushroom Cap)



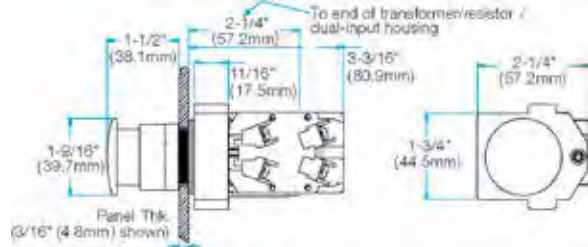
Momentary Illuminated H-Line Push Buttons

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

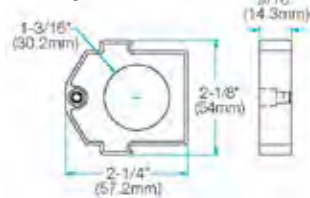
Illuminated Full Voltage Operator



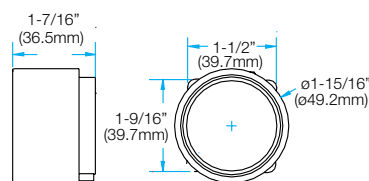
Illuminated Transformer, Resistor
and Dual Input Operators



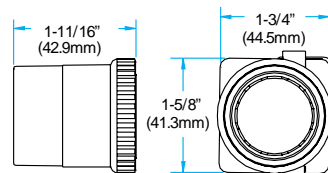
Illuminated Push Button
Mounting Bracket



Illuminated Shrouded
Mushroom Lens



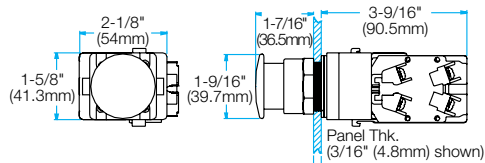
Illuminated Guarded Lens



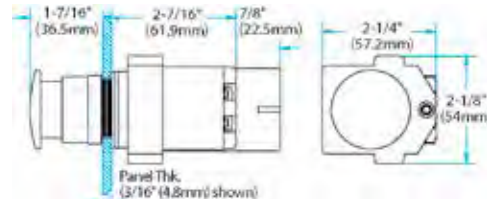
2-Position Push-Pull Maintained Illuminated H-Line Push Buttons

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

Illuminated Full Voltage Operator



Illuminated Transformer and Resistor
Operators



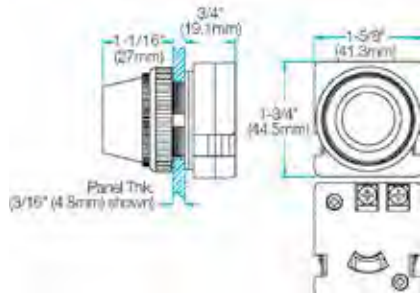
Pushbuttons and Pilot Lights

CSW30H Series (30mm) Hazardous Duty

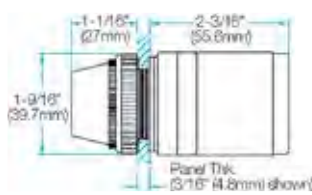
H-Line Pilot Lights

Fully-assembled operators come standard with one 3/16" (4.8mm) and two 1/16" (1.6mm) gaskets.

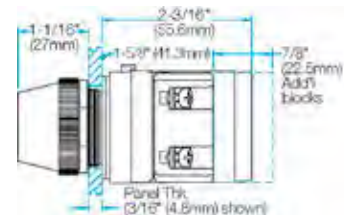
Full Voltage Pilot Light Operator



Transformer & Resistor Pilot Light Operators



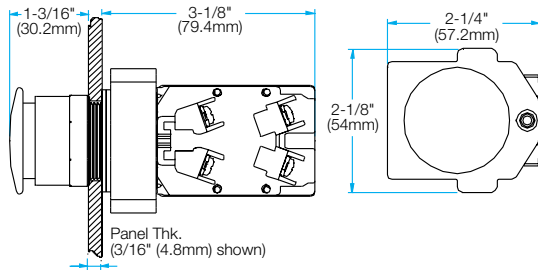
Dual Input Pilot Light Operator



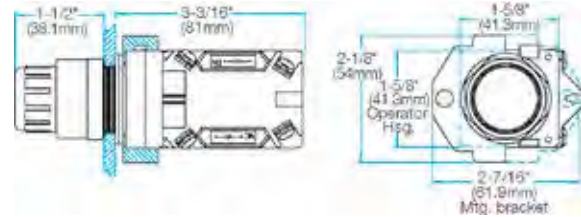
Push-To-Test H-Line Pilot Lights

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

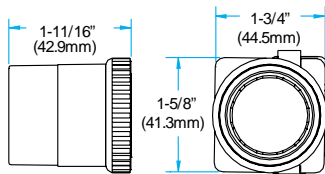
Full Voltage Push-To-Test Operator



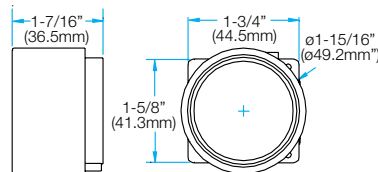
Transformer & Resistor Push-To-Test Operators



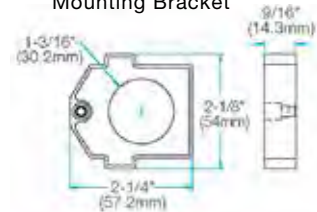
Guarded Lens



Shrouded Mushroom Lens



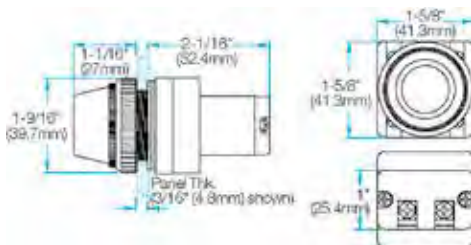
Illuminated Push-To-Test Mounting Bracket



Multi-Voltage H-Line Pilot Light

Fully-assembled operators come standard with four 1/16" (1.6mm) gaskets.

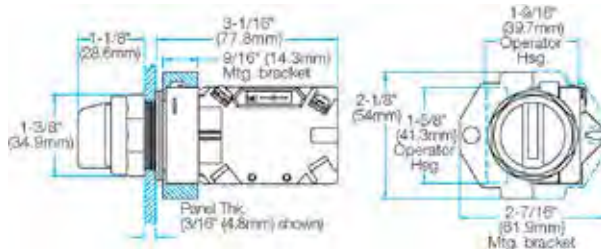
Multi-Voltage Pilot Light



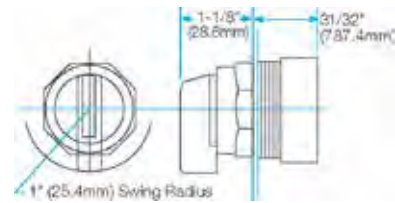
H-line Selector Switches

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

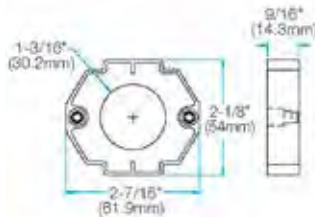
Selector Switch Operator
(shown with standard handle)



Selector Switch Lever Handle

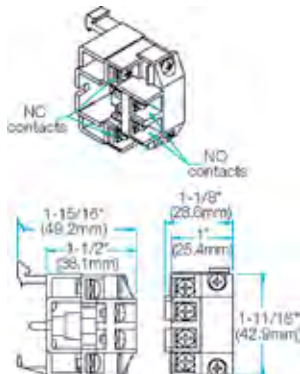


Selector Switch Mounting Bracket

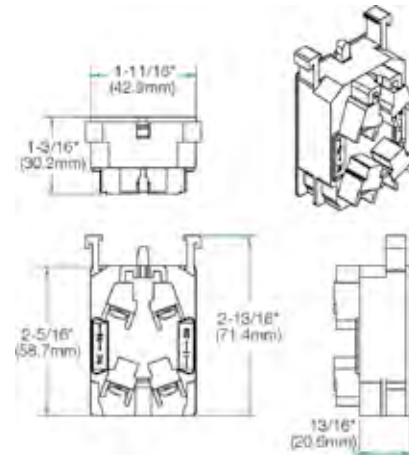


H-line contact blocks

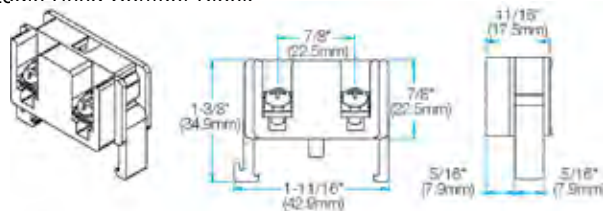
Factory Sealed Contact Block



Power Reed, Mid-Power Reed & Medium Logic Reed Contact Blocks



Logic Reed Contact Block



General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

Appendix A

Appendix B

Pushbuttons and Pilot Lights

CSW30H Series (30mm) Hazardous Duty

General Information

Circuit Protection

Disconnect Switches

Motor Protectors

Contactors

Overloads

Enclosed Starters

Relays

Pushbuttons and Pilot Lights

Terminal Blocks

Power Factor Correction

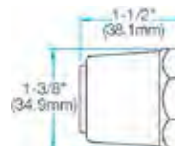
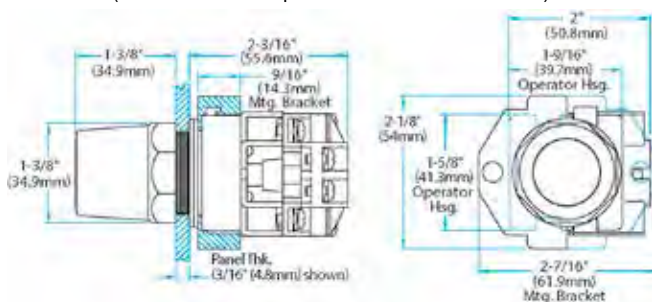
Appendix A

Appendix B

Maintained Flush & Extended h-line Push Button Caps

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. Maintained Extended Push Button Cap

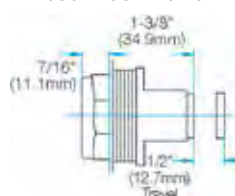
Maintained Flush Push Button Cap (shown with an operator and contact block)



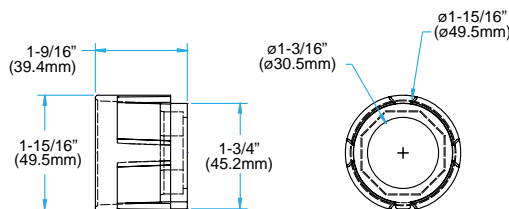
H-line Reset Push Button

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

Reset Push Button



GUARD ATTACHMENT



Lock-off attachment

