30MM HAZARDOUS DUTY PILOT DEVICES



Section 14

c3controls' 30mm H-Line Pilot Devices are designed for your most demanding hazardous duty applications. Specially engineered for Class 1, Division 2 and Zone 2, our 30mm H-Line offers a wide selection of hermetically sealed reed and factory sealed contact blocks, and each is made of an all-polyester construction with nickel-plated or stainless steel metal parts for superior corrosion resistance.



Contact Blocks	4
Push Buttons	6
Pilot Lights	14
Selector Switches	20
Legend Plates	22
Accessories	24
Specifications	26
Dimensions	30

PROVEN











Conformity to Standards: **PILOT DEVICES**

UL 508, 698, 1604, and 2279 30M, 157, and 213

MULTI-VOLTAGE PILOT LIGHTS

UL 508, 1604 IEC 60947-1, 60947-5-1

Certifications:

UL File #: E157436 (Guide NOIV, NOIV2, NOIV7), E68568 (Guide NKCR, NKCR7)

CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)

UL File #: E68568 (Guide NKCR, NKCR7), E157436 (Guide NOIV)

CE Marked (per EU Low Voltage Directive 2006/95/EC and



30MM HAZARDOUS DUTY PILOT DEVICES

Every product in our portfolio is designed and manufactured to meet the needs of the machine builder, including our comprehensive line of 30mm Hazardous Location Pilot Devices. Check out all the features of our Series 30 H-Line below!

LEADING THE INDUSTRY WITH	OUR INNOVATIVE AND RUGGED DESIGN
✓ Proven	Our 30mm hazardous operators are UL Listed and CE Marked meeting global standards requirements.
✓ Easy to Install	Our contact blocks snap-on for secure assembly and are color coded for quick circuit identification.
√ Simple Customization	Our light modules come with various lens color options for appropriate operator interface and are available in incandescent, neon, or our LED lamps with leakage protection.
√ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the contact blocks for easy reference during installation.
√ Heavy Duty	Polyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation. For added protection, metal parts are nickel-plated.
√ Convenient	Reduce inventory with our interchangeable modular design, providing endless options for appropriate operator interface.
√ 100% Reliability	Hermetically sealed and factory sealed contact blocks are manufactured with all stainless steel hardware for use in harsh environments.
√ Added Security	All 30mm hazardous location operators come with a screw-tightening mounting bracket to ensure contact blocks remain snug against operator.
✓ Environmentally Secure	With 4/4X and IP65 ratings, our 30mm line of pilot devices are built to last and withstand dust, corrosion, ice, and rain.
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.
√ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.

^{*}See c3controls Terms & Conditions

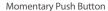
We were very pleased with the performance of c3controls' 30mm Hazardous Duty Pilot Devices, and by purchasing direct from the manufacturer, we have reduced costs without reducing quality.

Charlie Johnson, Applications Engineer • ECI Industrial, LLC

724.775.7926 :: www.c3controls.com

Section 14 | 2







Maintained Illuminated Push Button



Pilot Light



Selector Switch



UNIQUE PRODUCT LINE FEATURES

CLASS 1, DIVISION 2



Leading the industry with the widest range of hermetically sealed reed and factory sealed contact blocks.



c3controls 30mm Push-Twist-Release Emergency Stop devices feature a nickel-plated detent mechanism with stainless steel ball, and our Push-Pull operators contain a solid stainless steel detent mechanism. These features ensure reliable operation in emergency stop applications and provide safe interruption of circuits and longer life.



c3controls state-of-the-art multi-voltage light modules—the only U.S. engineered multivoltage light in the industry!—operate at any voltage from 20V to 277V AC or DC without losing intensity.

U-CUP SEAL



Our revolutionary U-Cup seal is infused with a Teflon coating to eliminate cracking when exposed to harsh conditions and keeps water, oils, and dust away from the contact blocks.

ONE CAM DESIGN



Our single cam design eliminates the need for multiple cam and selector switch configurations, reducing inventory and saves you labor time and costs.

INTERNAL SELF-LUBRICANT



All frictional parts are molded with an internal self-lubricant to provide outstanding wear without troublesome greases used by others.

FIND IT **FAST**

30mm Hazardous Duty Pilot Devices

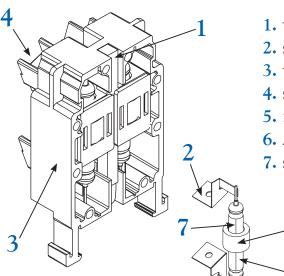


- Certifications
- Specifications
- **Dimension Drawings**
- Installation Instructions
- Easy to Buy

www.c3controls.com



HERMETICALLY SEALED FEATURES



- 1. Thermoplastic Stroker
- 2. Solid Brass Bus Connection
- 3. Thermoplastic Polyester Body
- 4. Stainless Steel Terminal Screw
- 5. Hermetically Sealed Glass Chamber
- 6. Actuator Magnet
- 7. Silver Alloy Contacts

- Logic Reeds are great for low power levels (resistive loads only), especially PLC inputs.
- Power Reeds are hermetically sealed, which is excellent for harsh environments and for 100% reliable operations.

HERMETICALLY SEALED POWER REED CONTACT BLOCK CONFIGURATION - (360 VA INDUCTIVE)

CODE	CONTACT SYMBOL	DESCRIPTION	COLOR	LIST
PRNO	-0 0-	1 Normally Open Contact Block	Green	\$74.00
PRNC	-0-0-	1 Normally Closed Contact Block	Red	\$74.00
PR2N0		2 Normally Open Contact Blocks	Green/ Green	\$118.00
PR2NC	-0-0-0-0-0	2 Normally Closed Contact Blocks	Red/Red	\$118.00
PRNONC		1 Normally Open and 1 Normally Closed Contact Blocks	Green/ Red	\$118.00

*Class 1, Division 2 (Groups A,B,C,D) - Zone 2 (Groups IIC) Rated B300, 240V AC, 5 Amps (Thermal) Continuous, 3600 VA Make, 360 VA Break (AC), C600 AC, Q300 DC, 250V DC, 69 VA Make and Break (DC).

HERMETICALLY SEALED MID-POWER REED CONTACT BLOCK CONFIGURATION - (180 VA INDUCTIVE)

		•		
CODE	CONTACT SYMBOL	DESCRIPTION	COLOR	LIST
MPRN0		1 Normally Open Contact Block	Green	\$ 59.00
MPRNC	-0-0-	1 Normally Closed Contact Block	Red	\$ 59.00
MPR2N0	~~~~~	2 Normally Open Contact Blocks	Green/ Green	\$102.00
MPR2NC	-0-0-0-0-	2 Normally Closed Contact Blocks	Red/ Red	\$102.00
MPRNONC	-00-00	1 Normally Open and 1 Normally Closed Contact Blo	Green/ Red cks	\$102.00

*Class 1, Division 2 (Groups A,B,C,D) - Zone 2 Gr. IIC Mid-Power Reed MPRNO Series C300 AC, 240V AC Max., 2.5 Amps Continuous Thermal, 1800 VA (Make) 180 VA (Break), Q150 DC, 69 VA Make and Break, 125V DC Max., 2.5 Amps Continuous Thermal.

HERMETICALLY SEALED MEDIUM LOGIC REED CONTACT BLOCK CONFIGURATION -(40 VA INDUCTIVE, 100 WATTS RESISTIVE)

CODE	CONTACT SYMBOL	DESCRIPTION	COLOR	LIST
MLRN0	->-	1 Normally Open Contact Block	Green	\$ 35.00
MLRNC	-0-0-	1 Normally Closed Contact Block	Red	\$ 35.00
MLR2N0		2 Normally Open Contact Blocks	Green/ Green	\$ 55.00
MLR2NC	- ◇••	2 Normally Closed Contact Blocks	Red/ Red	\$ 55.00
MLRNONC	-00-00	1 Normally Open and 1 Normally Closed Contact Block	Green/ Red	\$ 55.00
*CL 1 D: 2 (C				

*Class 1, Division 2 · (Groups A,B,C,D) Zone 2 Gr. IIC Medium Logic Reed Blocks are Rated 250V, 3.0 Amps Max. (Thermal), 40 VA Inductive Max., 100 Watts Resistive Max.

HERMETICALLY SEALED LOGIC REED CONTACT BLOCK CONFIGURATION - (40 WATTS RESISTIVE)

l	CODE	CONTACT SYMBOL	DESCRIPTION	COLOR	LIST
	LRNO	→	1 Normally Open Contact Block	Green	\$ 22.00
	LRNC	-0-0-	1 Normally Closed Contact Block	Red	\$ 22.00
п					

Class 1, Division 2 - (Groups A,B,C,D) Zone 2 Gr. IIC Logic Reed Blocks are Rated 220V Max., 2 Amps Max. (Thermal), 40 Watts Resistive Max.



^{*}NOTE: Circuits are electrically isolated. However, the Normally Open (NO) contact may make circuit before the Normally Closed (NC) contact opens.

^{*}NOTE: Circuits are electrically isolated. However, the Normally Open (NO) contact may make circuit before the Normally Closed (NC) contact opens.

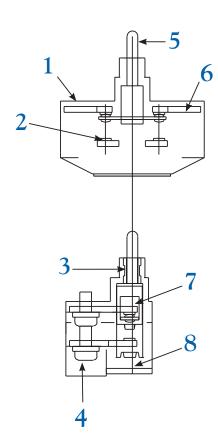
^{*}NOTE: Circuits are electrically isolated. However, the Normally Open (NO) contact may make circuit before the Normally Closed (NC) contact opens.



30MM H-LINE CONTACT BLOCKS

Our H-Line Contact Blocks feature convenient snap-on secured assembly, saving valuable time and money. For added security, all H-Line operators come standard with a screw-tightening mounting bracket to ensure the contact blocks remain snug to the operator. The hermetically sealed and factory sealed contact blocks are manufactured with all stainless steel hardware, which is excellent for harsh environments and for 100% reliability. We also offer ordinary location contact blocks, please refer to Section 13 Pages 4 & 5.

contact blocks, please refer to Section 13 Pages 4 & 5. Note: Hermetically and factory sealed contact blocks cannot be assembled stacked from the factory.







FACTORY SEALED FEATURES

- 1. Glass Reinforced Thermoplastic Body
- 2. Fine Silver Contacts
- **3.** Stainless Steel Bushing
- 4. Stainless Steel Terminal Screw
- Stainless Steel Shaft
- 6. Nickel-Plated Terminals
- 7. Stainless Steel Overtravel Spring
- 8. Stainless Steel Kickout Spring

FACTORY SEALED CONTACT BLOCK CONFIGURATION
(720 VA)

		•	
CODE	CONTACT SYMBOL	DESCRIPTION	LIST
CBFS		1 Normally Open and 1 Normally Closed Contact Blocks (to be used with linear devices)	\$ 94.00
CBFSR		1 Normally Open and 1 Normally Closed Contact Blocks (to be used with rotary selector devices)	\$ 94.00

Class 1, Division 2 (Groups B,C,D) T6 (85°C) - Zone 2 Gr. IIB+H2, A600 Rating Designation, 10A Continuous @ 600V AC (Thermal), 7200 VA (Make), 720 VA (Break). P300 DC, 250V DC Max., 138 VA Make and Break.

AVAILABLE CONTACT BLOCKS FOR H-LINE LOCATIONS



Factory Sealed for Linear Devices



Factory Sealed For Rotary Devices



Power Reed



Mid-Power Reed



Medium Logic Reed



Logic Reed



Simply pick the code number from each of the sections below and combine them to build your part number.

Momentary Push Buttons (Non-Illuminated)

Example: To build one of our most popular Push Buttons, the part number, would be I + II + III + IV + V + VIor HPBO-FCGN-PRNO



I. OPERATOR TYPE CODE DESCRIPTION LIST HPBO Push Button Operator w/bracket \$20.00 PBO Push Button Operator* *NOTE: PBO can only be used with a Logic Reed contact block.

	II. CLAMP RING	
CODE	DESCRIPTION	LIST
	FOR USE WITH ALL CAP TYPES (EXCLUDES RUBBER BOOTS)	
(Blank)	Black Polyester (Type 4X)	_
A	Aluminum (Type 4)*	\$ 4.30
	FOR USE WITH RUBBER BOOTS	
(Blank)	Clamp Ring Included**	_
*NOTE: Alu	ıminum clamp rings are NOT corrosion r	esistant

and are NOT an option for SMC or SJC cap types. **NOTE: Rubber boots come standard with a built in clamp ring and thrust washer. When installing the

thrust washer be placed behind

	e panel to prevent rota	
		_
_	DISCOUNT	
	SCHEDULE	Е.



	111	
	III. CAP TYPE	
CODE	DESCRIPTION	LIST
(Blank)	Operator Less Cap	
FC	Flush	\$ 5.20
GFC	Guarded Flush	\$ 12.00
XC	Extended	\$ 5.20
GXC	Guarded Extended	\$ 12.00
MC	Mushroom	\$ 17.00
JMC	Jumbo Mushroom	\$ 22.00
SMC	Shrouded Mushroom*	\$ 26.00
SJC	Shrouded Jumbo Mushroom*	\$ 30.00
HRB	Fluorosilicone Rubber Boot‡	\$ 39.00
*NOTE: Aluminum clamp rings are NOT an option for SMC or SJC.		
‡NOTE: Rubber boots come standard with a built in clamp ring and thrust washer. When installing the operator we recommend that the thrust washer be placed behind the panel to prevent rotation.		

	IV. CAP CULUR
CODE	DESCRIPTION
ALL	CAP TYPES (EXCLUDES RUBBER BOOTS)
(Blank)	Operator less Cap
BK	Black
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow
	RUBBER BOOTS
BK	Black
GN	Green
RD	Red
YW	Yellow

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

FACTORY SEALED, CLASS 1, DIV. 2/ZONE 2, 720 VA Operator without Contact Blocks —

DESCRIPTION

	CBFS	Contact Block with 1 Normally Open/1 Normally Closed	\$ 94.00
	POWER REE	D, CLASS 1, DIV. 2/ZONE 2, 360 VA INI	DUCTIVE
	(Blank)	Operator without Contact Blocks	_
	PRN0	1 Normally Open Contact Block	\$74.00
	PRNC	1 Normally Closed Contact Block	\$74.00
	PR2N0	Contact Block w/2 Normally Open	\$118.00
ı	PR2NC	Contact Block w/2 Normally Closed	\$118.00
	PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$118.00

MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA IND		
(Blank)	Operator without Contact Blocks	_
MPRNO	1 Normally Open Contact Block	\$ 59.00
MPRNC	1 Normally Closed Contact Block	\$ 59.00
MPR2N0	Contact Block w/2 Normally Open	\$102.00
MPR2NC	Contact Block w/2 Normally Closed	\$102.00
MPRNONC	Contact Block with 1 Normally	\$102.00

MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATTS RESISTIVE

Open/1 Normally Closed

(Blank)	Operator without Contact Blocks	
MLRN0	1 Normally Open Contact Block	\$ 35.00
MLRNC	1 Normally Closed Contact Block	\$ 35.00
MLR2N0	Contact Block w/2 Normally Open	\$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	\$ 55.00
MLRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$ 55.00

LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE*

(Blank)	Operator without Contact Blocks	_
LRN0	1 Normally Open Contact Block	\$ 22.00
LRNC	1 Normally Closed Contact Block	\$ 22.00

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw and must be used with a PBO, unless used with a Factory Sealed, Power, Mid-Power, or Medium Logic Reed.

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V. FROM ABOVE)



30MM H-LINE MOMENTARY Non-Illuminated Push Buttons

c3controls goes the extra step to make sure that our products outlast the competition. Our 30mm H-Line Momentary Non-Illuminated Push Buttons are durable and flexible for a variety of uses, and all metal parts are nickel-plated for superior corrosion resistance. All c3controls 30mm H-Line operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- Our 30mm H-Line operators come standard with a polyester clamp ring, although optional aluminum clamp rings are available.
- #6 stainless steel terminal screws with self-lifting captive wire clamps accommodate #22 through two #12 AWG wires (0.5 - 4mm²) per terminal.
- Operators conveniently mount in a round 1-13/64" (30.5mm) hole that is directly interchangeable with competitors units and eliminates the labor required for notching.



UNIQUE PRODUCT FEATURES



- 1. Our revolutionary U-Cup seal is infused with a Teflon coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. The U-Cup seal rides easily along the stroker and keeps water, oils, dust and other corrosive particles in the air away from the contact blocks. This U-cup seal also acts like a squeegee and forms a permanent watertight seal that meets Type 4/4X with or without a rubber boot. In fact, our push button was the first to be rated Type 4X without using a rubber boot!
- 2. Our push buttons modular design provides endless options for appropriate operator interface by alternating cap types and colors which ultimately will save you time and money by reducing your inventory.

ADDED SECURITY!

For added security, all H-Line Push Buttons come standard with a screw tightening mounting bracket to ensure the contact blocks remain snug to the operator.

Some of Our Popular Configurations:

MOMENTARY NON-ILLUMINATED PUSH BUTTON OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)

	FLUSH CAP		EXTENDED CAP	
CAP COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST
Green	HPBO-FCGN-PRNO	\$ 99.20	HPBO-XCGN-PRNO	\$ 99.20
Red	HPBO-FCRD-PRNC	\$ 99.20	HPBO-XCRD-PRNC	\$ 99.20
Green	HPBO-FCGN-CBFS	\$119.20	HPBO-XCGN-CBFS	\$119.20
Red	HPBO-FCRD-CBFS	\$119.20	HPBO-XCRD-CBFS	\$119.20

MIX AND MATCH ANY COLOR AND MOMENTARY NON-ILLUMINATED PUSH BUTTON CAP



Flush Cap

Guarded Flush Cap

Extended Cap

Guarded Extended

Mushroom Cap (1-1/2" (38mm) dia.) Cap

Jumbo Mushroom Cap

Shrouded Mushroom Cap (2-1/4" (57mm) dia.)(1-1/2" (38mm) dia.) (2-1/4" (57mm) dia.)

Shrouded Jumbo Rubber Boot Mushroom Cap



Simply pick the code number from each of the sections below and combine them to build your part number.

Maintained Push Buttons (Non-Illuminated) 2-Position Push-Twist Release



Example: To build one of our most popular Push Buttons, the part number would be I + II + TMC + IV + V + VI or HPTR-TMCRD-CBFS



I. OPERATOR TYPE			
CODE	DESCRIPTION	LIST	
HPTR	Push-Twist Release w/bracket	\$ 67.00	
PTR	Push-Twist Release*	\$ 65.00	
*NOTE: F	TR can only be used with a Logic Reed Cont	act Block.	

II. CLAMP RING			
CODE	DESCRIPTION	LIST	
(Blank)	Black Polyester (Type 4X)		
Υ	Yellow Polyester (Type 4X)	\$ 4.30	
Α	Aluminum (Type 4)*	\$ 4.30	
*NΩTF: ΔΙι	minum clamn rings are NOT corrosion re	sistant	

The linear push-off twist to release style operator requires a "twist" for the "out" or "on" position and a linear "push" for the "in" or "off" position. The twist mushroom cap is marked with arrows identifying the direction for the twist release.

	III. CAP TYPE	
CODE	DESCRIPTION	LIST
TMC	Twist Mushroom	\$ 17.00

	IV. CAP COLOR
CODE	COLOR
BK	Black
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

DECEDIATION

	CODE	DESCRIPTION	rigi
	FACTORY	SEALED, CLASS 1, DIV. 2/ZONE 2, 72	O VA
1	(Blank)	Operator without Contact Blocks	_
	CBFS	Contact Block with 1 Normally	\$ 94.00
		Open/1 Normally Closed	
ı	POWER REF	D. CLASS 1. DIV. 2/70NF 2. 360 VA IN	DUCTIVE

POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUC		
(Blank)	lank) Operator without Contact Blocks	
PRN0	1 Normally Open Contact Block	\$ 74.00
PRNC	1 Normally Closed Contact Block	\$ 74.00
PR2N0	Contact Block w/2 Normally Open	\$118.00
PR2NC	Contact Block w/2 Normally Closed	\$118.00
PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$118.00

MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA IND		
(Blank)	Blank) Operator without Contact Blocks	
MPRN0	1 Normally Open Contact Block	\$ 59.00
MPRNC	1 Normally Closed Contact Block	\$ 59.00
MPR2N0	Contact Block w/2 Normally Open	\$102.00
MPR2NC	Contact Block w/2 Normally Closed	\$102.00
MPRNONC	Contact Block with 1 Normally	\$102.00
	Open/1 Normally Closed	

MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, **40 VA INDUCTIVE, 100 WATTS RESISTIVE**

(Blank)	Operator without Contact Blocks	_
MLRN0	1 Normally Open Contact Block	\$ 35.00
MLRNC	1 Normally Closed Contact Block	\$ 35.00
MLR2N0	Contact Block w/2 Normally Open	\$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	\$ 55.00
MLRNONC	Contact Block with 1 Normally	\$ 55.00
	Open/1 Normally Closed	

LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE*

(Blank)	Operator without Contact Blocks	_
LRN0	1 Normally Open Contact Block	\$ 22.00
LRNC	1 Normally Closed Contact Block	\$ 22.00

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw and must be used with a PTR or PBO, unless used with a Factory Sealed, Power, Mid-Power, or Medium Logic Reed.

Maintained Push Buttons (Non-Illuminated) 2-Position Push-Pull

Example: To build one of our most popular Push Buttons, the part number would be I + II + III +

IV + V + VI + VII or HPBO-HPPMCRD-PRNONC

CODE DESCRIPTION HPBO Push Button Operator w/bracket \$20.00 PBO Push Button Operator* *NOTE: PBO can only be used with a Logic Reed CB.

I. OPERATOR TYPE

II. CLAMP RING				
CODE	DESCRIPTION	LIST		
(Blank)	Black Polyester (Type 4X)	_		
Υ	Yellow Polyester (Type 4X)	\$ 4.30		
Α	Aluminum (Type 4)*	\$ 4.30		
*NOTE: Alı	*NOTE: Aluminum clamp rings are NOT corrosion resistant.			

	III. CAP FUNCTION		
CODE	DESCRIPTION	LIST	
HPP	Stainless Steel Push-Pull Maint.	\$89.00	
PP	Brass Push-Pull Maint.	\$ 57.00	

	IV. CAP TYPE		
CODE	DESCRIPTION	LIST	
MC	Mushroom	_	
JMC	Jumbo Mushroom	\$ 8.60	

	V. CAP COLOR
CODE	COLOR
BK	Black
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)



VI. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

(USE CHART V FROM ABOVE)

VII. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

The 2-Position Push-Pull is maintained in both the push and pull positions. The primary application is "push" to "stop" and "pull" to "start".



30mm H-Line Maintained Non-Illuminated Push Buttons

THE MOST RUGGED EMERGENCY STOP AVAILABLE IN THE INDUSTRY!

The 30mm H-Line of maintained non-illuminated push buttons feature all polyester construction and all metal parts are nickel-plated or stainless steel for superior corrosion resistance; #6 stainless steel terminal screws have self-lifting captive wire clamps to accommodate #22 through two #12 AWG wires (0.5 - 4mm²) per terminal. Units mount in a round 1-13/64" (30.5mm) hole and are directly interchangeable with competitors units. Operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.



Some of Our Popular Configurations:

2-POSITION PUSH-TWIST RELEASE OPERATORS MAINTAINED IN/MAINTAINED OUT					
	POWER REED CONTACT BLOCK 2 CIRCUIT (1 NO/1 NC)		FACTORY SEALED CONTACT BLOCK 2 CIRCUIT (1 NO/1 NC)		
O = OPEN X = CLOSED	Ī=		Î		
	OUT IN		OUT IN		
	NC X O		NC X O		
	NO O X		NO O X		
CAP COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	
Black	HPTR-TMCBK-PRNONC	\$202.00	HPTR-TMCBK-CBFS	\$178.00	
Green	HPTR-TMCGN-PRNONC	\$202.00	HPTR-TMCGN-CBFS	\$178.00	
Red	HPTR-TMCRD-PRNONC	\$202.00	HPTR-TMCRD-CBFS	\$178.00	
Yellow	HPTR-TMCYW-PRNONC	\$202.00	HPTR-TMCYW-CBFS \$178.00		

2-POSITION PUSH-PULL MAINTAINED OPERATORS MAINTAINED IN/MAINTAINED OUT								
POWER REED CONTACT BLOCK 2 CIRCUIT (1 NO/1 NC)		FACTORY SEALED CONTACT BLOCK 2 CIRCUIT (1 NO/1 NC)			BLOCK			
O = OPEN X = CLOSED	1							<u>.</u>
	0	UT	IN			OUT	IN	
	NC X	<	0		NC	Χ	0	
	NO ()	Χ		NO	0	Χ	
CAP COLOR	CATALOG I	NUMBER	}	LIST	CATALO	G NUMBER		LIST
Black	HPBO-HP	PMCBK	-PRNONC	\$227.00	HPB0-I	НРРМСВК-	CBFS	\$203.00
Green	НРВО-НР	PMCGN	-PRNONC	\$227.00	HPB0-I	HPPMCGN-	-CBFS	\$203.00
Red	НРВО-НР	PMCRD	-PRNONC	\$227.00	HPB0-I	HPPMCRD-	CBFS	\$203.00
Yellow	HPBO-HPF	PMCYW.	PRNONC	\$227.00	HPB0-I	HPPMCYW	-CBFS	\$203.00

UNIQUE FEATURES



Our push-twist operator features a nickel-plated detent mechanism with stainless steel ball while our push-pull operator contains a solid stainless steel detent mechanism. These are the best-engineered, most reliable heavy-duty emergency stop buttons in the world. This rugged design, which comes standard with a polyester clamp ring or optional aluminum clamp ring, ensures reliable operation in emergency applications, providing safe interruption of circuits, and much longer life when compared to any competitor's product.

ADDED SECURITY! For added security, all H-Line

Push Buttons come standard with a screw tightening mounting bracket to ensure the contact blocks remain snug to the operator.

Available Cap Colors for 2-Position Maintained Non-Illuminated Push Buttons





IT'S EASY TO BUILD YOUR OWN PUSH BUTTON

Simply pick the code number from each of the sections below and combine them to build your part number.

Momentary Push Buttons (Illuminated)*



Example: To build one of our most popular Push Buttons, the part number would be I + II + III + IV + V + VI + VII or HFVLU120-HIPBCGN-PRNO

*NOTE: Our momentary illuminated push buttons must be ordered as an assembled part. Contact blocks may be ordered separately



Red

White

Yellow

AR BE CR GN BD

WE

YW

I. ILLUMINATED PUSH BUTTON OPERATOR

CODE	DESCRIPTION	LIST
HFVLU	Full Voltage	\$ 64.00
HRLU	Resistor	\$ 64.00
HRTLU	Dual Input Remote Test	\$100.00

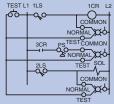
II. VOLTAGE BASED ON

	OPERATOR TYPE			
CODE	DESCRIPTION			
	FULL VOLTAGE			
6	6V AC/DC			
12	12V AC/DC			
24	24V AC/DC			
120	120V AC/DC			
	RESISTOR			
120	120V AC/DC			
240	240V AC/DC			
480	480V AC/DC (LED & Neon only)			
	DUAL INPUT REMOTE TEST			
6	6V AC/DC			
12	12V AC/DC			
24	24V AC/DC			
120	120V AC/DC			

DUAL INPUT REMOTE TEST

Our unique Dual Input Remote light unit can be used as an illuminated push button while also permitting the testing of a number of lights from a single push button. A diode circuit isolates the test

supply from the normal supply. The schematic shown represents a typical dual input application.



III. LAMP TYPE/COLOR

CODE	COLOR	LIST
	LED	
LA	Amber	\$ 18.00
LB	Blue	\$ 18.00
LG	Green	\$ 18.00
LR	Red	\$ 18.00
LW	White	\$ 18.00
	INCANDESCENT	
(Blank)	Clear [‡]	
	[‡] NOTE: Incandescent bulbs are not an option for HRLU480.	
F	Clear Flashing Bulh*	\$ 7.10

are not an option for HRLU480.

F Clear Flashing Bulb* \$ 7.1
*NOTE: Incandescent flashing bulbs
available for any 6V full voltage
application.

NEON†

 NG
 Green
 —

 NR
 Red
 —

 tNOTE: Only Available in HFVLU120, HRLU240 and HRLU480.
 —

 NL
 No Lamp
 —
 \$ 1.80

IV. CLAMP RING

CODE	DESCRIPTION	LIST
(Blank)	(Blank) Black Polyester (Type 4X)	
A	Aluminum (Type 4)*	\$ 4.30
*NOTE, AL.	minum alama ringa ara NOT aarraaiaa r	ooiotont

V. LENS TYPE

CODE	DESCRIPTION	LIST
HIPBC	Illuminated Push Button Lens	\$ 24.00
HIPBCM	Illuminated Push Button Mushroom Lens	\$ 36.00
HGIPBC	Guarded Illuminated Push Button Lens*	\$ 36.00
HSIPBCM	Shrouded Illuminated Push Button Mushroom Lens ^a	\$ 48.00

*NOTE: Aluminum clamp rings are not an option for HGIPBC or HSIPBCM.

NOTE: When specifying a Logic Reed (LRNO, LRNC) from Chart VII, delete the "H" from the Lens Type code above.

SEE PAGE 26 FOR LAMP REPLACEMENT CHART AND PAGE 27 FOR LAMP TECHNICAL DATA.



COLOR	
Amber	
Blue	
Clear	
Green	

VI. LENS COLOR

VII. CONTACT BLOCK CONFIGURATION

CODE DESCRIPTION		LIST
FACTORY	SEALED, CLASS 1, DIV. 2/ZONE 2, 72	O VA
(Blank)	Operator without Contact Blocks	_
CBFS	Contact Block with 1 Normally	\$ 94.00
	Open/1 Normally Closed	

POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUCTIVE

(Blank)	Operator without Contact Blocks	_
PRNO	1 Normally Open Contact Block	\$ 74.00
PRNC	1 Normally Closed Contact Block	\$ 74.00
PR2N0	Contact Block w/2 Normally Open	\$118.00
PR2NC	Contact Block w/2 Normally Closed	\$118.00
PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$118.00

MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA INDUCTIVE

(Blank)	Operator without Contact Blocks	
MPRN0	1 Normally Open Contact Block	\$ 59.00
MPRNC	1 Normally Closed Contact Block	\$ 59.00
MPR2N0	Contact Block w/2 Normally Open	\$102.00
MPR2NC	Contact Block w/2 Normally Closed	\$102.00
MPRNONC	Contact Block with 1 Normally	\$102.00
	Open/1 Normally Closed	

MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATTS RESISTIVE

(Blank)	Operator without Contact Blocks	_
MLRN0	1 Normally Open Contact Block	\$ 35.00
MLRNC	1 Normally Closed Contact Block	\$ 35.00
MLR2N0	Contact Block w/2 Normally Open	\$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	\$ 55.00
MLRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$ 55.00

LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE $^{\circ}$

(Blank)	Operator without Contact Blocks	_
LRN0	1 Normally Open Contact Block	\$ 22.00
LRNC	1 Normally Closed Contact Block	\$ 22.00

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw.



30mm H-Line Momentary Illuminated Push Buttons

c3controls 30mm H-Line Momentary Illuminated Push Buttons are durable and flexible for a variety of uses, and all metal parts are nickel-plated for superior corrosion resistance. All c3controls 30mm H-Line operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- Our 30mm H-Line operators come standard with a polyester clamp ring, although optional aluminum clamp rings are available.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps that are nickel-plated for corrosion-resistance and to provide reliable lamp secureness.
- #6 stainless steel terminal screws with self-lifting captive wire clamps accommodate #22 through two #12 AWG wires (0.5 4mm²) per terminal.
- Operators conveniently mount in a round 1-13/64" (30.5mm) hole that is directly interchangeable with competitors units and eliminates the labor required for notching.



UNIQUE PRODUCT FEATURES



- 1. Our revolutionary U-Cup seal is infused with a Teflon coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. The U-Cup seal rides easily along the stroker and keeps water, oils, dust and other corrosive particles in the air away from the contact blocks. This U-cup seal also acts like a squeegee and forms a permanent watertight seal that meets Type 4/4X standards.
- 2. All frictional parts are molded with an internal self lubricant to provide outstanding wear without troublesome greases used by others.

Some of Our Popular Configurations:

MOMENTARY ILLUMINATED PUSH BUTTON OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)						
	PUSH BUTTON LENS MUSHROOM LENS					
	LENS COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	
Full	Amber	HFVLU120-HIPBCAR-PRNONC	\$206.00	HFVLU120-HIPBCMAR-PRNONC	\$218.00	
Voltage -	Green	HFVLU120-HIPBCGN-PRNO	\$162.00	HFVLU120-HIPBCMGN-PRNO	\$174.00	
	Red	HFVLU120-HIPBCRD-PRNC	\$162.00	HFVLU120-HIPBCMRD-PRNC	\$174.00	
Resistor	Green	HRLU120-HIPBCGN-PRNO	\$162.00	HRLU120-HIPBCMGN-PRNO	\$174.00	
	Red	HRLU120-HIPBCRD-PRNC	\$162.00	HRLU120-HIPBCMRD-PRNC	\$174.00	

ADDED SECURITY!

For added security, all
H-Line Push Buttons come
standard with a screw tightening
mounting bracket
to ensure the
contact
blocks
remain snug
to the operator.

MIX AND MATCH ANY COLOR AND MOMENTARY ILLUMINATED PUSH BUTTON LENS





Push Button Lens











Guarded Push
Button Lens

— Mushroom Lens — (1-1/2" (38mm) dia.)

Shrouded Mushroom Lens (1-1/2" (38mm) dia.)



IT'S EASY TO BUILD YOUR OWN PUSH BUTTON

Simply pick the code number from each of the sections below and combine them to build your part number.

CODE COLOR

Maintained Push Buttons (Illuminated) 2-Position Push-Pull



Example: To build one of our most popular Push Buttons, the part number would be I + PPM + III + IV + V + IMC + VII + VIII or HFVPPM120-IMCAR-PRNONC



DESCRIPTION

I. ILLUMINATED PUSH BUTTON OPERATOR

CODE	DESCRIPTION	LIST
HFV	Full Voltage	\$ 92.00
HRL	Resistor	\$ 96.00

II. CAP TYPE

CODE	DESCRIPTION	
PPM	Push-Pull Maintained	

III. VOLTAGE BASED ON OPERATOR TYPE

CODE	DESCRIPTION	
	FULL VOLTAGE	
6	6V AC/DC	
12	12V AC/DC	
24	24V AC/DC	
120	120V AC/DC	
	RESISTOR	
120	120V AC/DC	
240	240V AC/DC	
480	480V AC/DC (LED & Neon only)	

The 2-Position Push-Pull is maintained in both the push and pull positions. The primary application is "push" to "stop" and "pull" to "start".

IV. LAMP TYPE/COLOR

LICT

CODE

CODE	CULUN	ш	ð I
	LED		
LA	Amber	\$	18.00
LB	Blue	\$	18.00
LG	Green	\$	18.00
LR	Red	\$	18.00
LW	White	\$	18.00
	INCANDESCENT		
(Blank)	Clear [‡] *NOTE: Incandescent bulbs are not an option for HRLPPM4	— 80.	-
F	Clear Flashing Bulb* *NOTE: Incandescent flashing I available for any 6V full voltag application.		7.10
	NEON†		
NG	Green	_	-
NR	Red	_	_
	†NOTE: Only Available in HFVPPM12 HRLPPM240 and HRLPPM480.	!0,	
NL	No Lamp	-\$	1.80

V. CLAMP RING

CODE	DESCRIPTION	LIS	ST
(Blank)	Black Polyester (Type 4X)	_	
A	Aluminum (Type 4)*	\$	4.30
*NOTE: All resistant.	uminum clamp rings are NOT corro	sion	

VI. LENS TYPE

CODE	DESCRIPTION	LIST
IMC	Illuminated Push Button	\$ 36.00
	Mushroom Lens	

VII. LENS COLOR

CODE	COLOR
AR	Amber
BE	Blue
CR	Clear
GN	Green
RD	Red
WE	White
_	

VIII. CONTACT BLOCK CONFIGURATION

п	OODL	DECOMMIT FIGHT	-	
ı	FACTORY	SEALED, CLASS 1, DIV. 2/ZONE 2, 7	20	VA
ı	(Blank)	Operator without Contact Blocks	_	-
l	CBFS	Contact Block with 1 Normally Open/1 Normally Closed	\$	94.00
н				

POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUCTIVE (Blank) Operator without Contact Blocks —

ı	(Blank)	Operator without Contact Blocks	_
ı	PRN0	1 Normally Open Contact Block	\$ 74.00
ı	PRNC	1 Normally Closed Contact Block	\$ 74.00
ı	PR2N0	Contact Block w/2 Normally Open	\$118.00
ı	PR2NC	Contact Block w/2 Normally Closed	\$118.00
	PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$118.00
ı		Open, involinally 610380	

MID-POWER REED, CLASS 1, DIV. 2/ZONE 2, 180 VA INDUCTIVE

(Blank)	Operator without Contact Blocks	_
MPRN0	1 Normally Open Contact Block	\$ 59.00
MPRNC	1 Normally Closed Contact Block	\$ 59.00
MPR2N0	Contact Block w/2 Normally Open	\$102.00
MPR2NC	Contact Block w/2 Normally Closed	\$102.00
MPRNONC	Contact Block with 1 Normally	\$102.00
	Open/1 Normally Closed	

MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATTS RESISTIVE

(Blank)	Operator without Contact Blocks	_
MLRNO	1 Normally Open Contact Block	\$ 35.00
MLRNC	1 Normally Closed Contact Block	\$ 35.00
MLR2N0	Contact Block w/2 Normally Open	\$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	\$ 55.00
MLRNONC	Contact Block with 1 Normally	\$ 55.00
	Open/1 Normally Closed	
LOCIC DEED	CLACC 4 DIN 9/70NE 9 40 MATTE DE	CICTIVES

LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 WATTS RESISTIVE* (Blank) Operator without Contact Blocks — LRNO 1 Normally Open Contact Block \$ 22.00

LRNC 1 Normally Closed Contact Block \$ 22.00
*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw.

SEE PAGE 26 FOR LAMP REPLACEMENT CHART AND PAGE 27 FOR LAMP TECHNICAL DATA.





30mm H-Line Maintained Illuminated Push Buttons

c3controls 30mm H-Line Maintained Illuminated Push Buttons are durable and flexible for a variety of uses, and all metal parts are nickel-plated for superior corrosion resistance. All c3controls 30mm H-Line operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- Our 30mm H-Line operators come standard with a polyester clamp ring, although optional aluminum clamp rings are available.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps that are nickel-plated for corrosion-resistance and provide reliable lamp secureness.
- #6 stainless steel terminal screws with self-lifting captive wire clamps accommodate #22 through two #12 AWG wires (0.5 4mm²) per terminal.
- Operators conveniently mount in a round 1-13/64" (30.5mm) hole that is directly interchangeable with competitors units and eliminates the labor required for notching.



UNIQUE PRODUCT FEATURES



- 1. Our seal is infused with a coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. This seal also acts as a light reflector because it is white which increases light output and improves visibility from all angles.
- All frictional parts are molded with an internal self lubricant to provide outstanding wear without troublesome greases used by others.
- Our rugged Lexan™ lenses can resist high impact for reliable performance in most environments even in high ambient temperatures.

Some of Our Popular Configurations:

2-POSITION PUS	SH-PULL MAINTAINED OPERA	ATORS WITH	I POLYESTER CLA	MP RING	G (TYPE 4X)
	POWER REED CONTACT BL(2 CIRCUIT (1 NO/1 NC)		FACTORY SEAL 2 CIRCUI	ED CONTAC T (1 NO/1	
O = OPEN X = CLOSED	OUT IN		OUT	IN	
	PRNONC X O		CBFS X	0	
	PRNONC 0 X		CBFS 0	Χ	
TYPE	CATALOG NUMBER	LIST	CATALOG NUMBER		LIST
Full Voltage	HFVPPM120LR-IMCRD-PRNONC	\$268.30	HFVPPM120LR-IMC	RD-CBFS	\$240.00
Resistor	HRLPPM120-IMCRD-PRNONC	\$250.00	HRLPPM120-IMCRD	-CBFS	\$226.00

Available Lens Colors for 2-Position Maintained Illuminated Push Buttons



(1-1/2" (38mm) dia.)



IT'S EASY TO BUILD YOUR OWN PILOT LIGHT

Simply pick the code number from each of the sections below and combine them to build your part number.



Example: To build one of our most popular Pilot Lights, the part number would be I + II + III + IV + PLL + VI or HFVLU120LG-PLLGN



I. PILOT LIGHT OPERATOR		
CODE	DESCRIPTION	LIST
HFVLU	Full Voltage	\$ 64.00
HRLU	Resistor	\$ 64.00
HRTLU	Dual Input Remote Test	\$100.00

	II. VOLTAGE BASED ON OPERATOR TYPE
CODE	DESCRIPTION
	FULL VOLTAGE
6	6V AC/DC
12	12V AC/DC
24	24V AC/DC
120	120V AC/DC
	RESISTOR
120	120V AC/DC
240	240V AC/DC
480	480V AC/DC (LED & Neon only)
	DUAL INPUT REMOTE TEST
6	6V AC/DC
12	12V AC/DC
24	24V AC/DC
120	120V AC/DC
240	240V AC/DC

	III. LAMP TYPE/COLO	R
CODE	COLOR	LIST
	LED	
LA	Amber	\$ 18.00
LB	Blue	\$ 18.00
LG	Green	\$ 18.00
LR	Red	\$ 18.00
LW	White	\$ 18.00
	INCANDESCENT	
(Blank)	Clear [‡] *NOTE: Incandescent bulbs are not an option for HRLU480.	_
F	Clear Flashing Bulb* *NOTE: Incandescent flashing bu available for any 6V full voltage application.	\$ 7.10 lbs
	NEON†	
NG	Green	_
NR	Red	
	†NOTE: Only Available in HFVLU120, HRLU240 and HRLU480.	
NL	No Lamp	- \$ 1.80

SEE PAGE 26 FOR LAMP REPLACEMENT CHART AND PAGE 27 FOR LAMP TECHNICAL DATA.

CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
A	Aluminum (Type 4)*	\$ 4.30
*NOTE: Alu	uminum clamp rings are NOT resistant.	

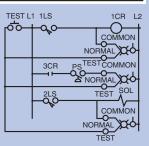
V. LENS TYPE		
CODE	DESCRIPTION	LIST
PLL	Pilot Light Lens	\$ 11.00

VI. LENS COLOR		
CODE	COLOR	
AR	Amber	
BE	Blue	
CR	Clear	
GN	Green	
RD	Red	
WE	White	



DUAL INPUT REMOTE TEST

Our unique Dual Input Remote light unit can be used as a pilot light while also permitting the testing of a number of lights from a single push button. A diode circuit isolates the test supply from the normal supply. The schematic shown represents a typical dual input application.



AVAILABLE LENS COLORS FOR PILOT LIGHTS













724.775.7926 :: www.c3controls.com



30mm H-LINE PILOT LIGHTS

Our 30mm H-Line Pilot Lights, when utilized with our LED lamps provide leakage protection, long-lasting life and high quality with tremendous resistance to shock and vibration. Our reflection technology and state-of-the-art LED lamps improve visibility from all angles. c3controls LED lamps last 100,000 hours — that's 11.4 years! Combine these LEDs with our full voltage or resistor packages for optimum durability. All c3controls 30mm H-Line operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- All metal parts are nickel-plated for superior corrosion resistance.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- #6 stainless steel terminal screws with self-lifting captive wire clamps accommodate #22 through two #12 AWG wires (0.5 4mm²) per terminal.
- Operators conveniently mount in a round 1-13/64" (30.5mm) hole that is directly interchangeable with competitors units and eliminates the labor required for notching.







- 1. Compact, thin design is also vibration resistant.
- 2. Our seal is infused with a coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. This seal also acts as a light reflector because it is white which increases light output and improves visibility from all angles.
- Our rugged Lexan™ lenses provide better visibility and can resist high impact for reliable performance in most environments, even in high ambient temperatures.
- **4.** These light units use a miniature bayonet base lamp which are nickel-plated for corrosion resistance and provide reliable lamp secureness.

SOME OF OUR POPULAR CONFIGURATIONS:

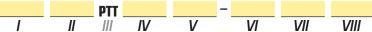
PILOT LIGHTS WITH POLYESTER CLAMP RING (TYPE 4X)		
CATALOG NUMBER	DESCRIPTION	LIST
HFVLU24LA-PLLAR	Full Voltage 24V Amber LED w/Amber Lens	\$ 93.00
HFVLU24LG-PLLGN	Full Voltage 24V Green LED w/Green Lens	\$ 93.00
HRLU120LR-PLLRD	Resistor 120V Red LED w/Red Lens	\$ 93.00



IT'S EASY TO BUILD YOUR OWN PILOT LIGHT

Simply pick the code number from each of the sections below and combine them to build your part number.

Push-To-Test Pilot Lights



Example: To build one of our most popular Pilot Lights, the part number would be I + II + PTT + IV + V + VI + VIII + VIII or HFSFVPTT120-HIPBCGN



I. CONTACT DECOR CONTINUE		
CODE	DESCRIPTION	LIST
HPR	Hermetically Sealed Reed Contact (wired at factory)	\$118.00
HFS	Factory Sealed Contact (wired at factory)	\$106.00

II. PUSH-TO-TEST OPERATOR		
CODE	DESCRIPTION	LIST
FV	Full Voltage	\$ 64.00
RL	Resistor	\$ 64.00

III. OPERATOR TYPE		
CODE PTT	DESCRIPTION	LIST
PTT	Push-To-Test	\$ 9.00

IV. VOLTAGE BASED ON OPERATOR TYPE	
CODE	DESCRIPTION
	FULL VOLTAGE
6	6V AC/DC
12	12V AC/DC
24	24V AC/DC
120	120V AC/DC
	RESISTOR
120	120V AC/DC
240	240V AC/DC
480	480V AC/DC (LED & Neon only)

V. LAMP TYPE/COLOR			
CODE	COLOR	LIST	
	LED		
LA	Amber	\$ 18.00	
LB	Blue	\$ 18.00	
LG	Green	\$ 18.00	
LR	Red	\$ 18.00	
LW	White	\$ 18.00	
	INCANDESCENT		
(Blank)	Clear [‡]	_	
	NOTE: Incandescent bulbs are not an option for RLPTT480. Clear Flashing Bulb \$7.10 *NOTE: Incandescent flashing bulbs available for any 6V full voltage application.		
F			
	NEON†		
NG	Green	_	
NR	Red —		
	†NOTE: Only Available in FVPTT120, RLPTT240 and RLPTT480.		
NL	No Lamp	- \$ 1.80	

VI. CLAMP RING				
CODE	DESCRIPTION	LIS	ST	
(Blank)	Black Polyester (Type 4X)	_	-	
A	Aluminum (Type 4)*	\$	4.30	
*NOTE: Aluminum clamp rings are NOT corrosion resistant.				

SEE PAGE 26 FOR LAMP REPLACEMENT CHART AND PAGE 27 FOR LAMP TECHNICAL DATA.



VII. LENS TYPE		
CODE	DESCRIPTION	LIST
HIPBC	Illuminated Push Button Lens	\$ 24.00
HIPBCM	Illuminated Push Button Mushroom Lens	\$ 36.00
HGIPBC	Guarded Illuminated Push Button Lens*	\$ 36.00
HSIPBCM	Shrouded Illuminated Push Button Mushroom Lens	\$ 48.00 *
*NOTE: Aluminum clamp rings are not an option for _HGIPBC or HSIPBCM.		n for

	VIII. LENS COLOR
CODE	COLOR
AR	Amber
BE	Blue
CR	Clear
GN	Green
RD	Red
WE	White

Push-To-Test Pilot Lights combine an illuminated push button with a normally open/normally closed contact block factory wired for three-point wiring in standard push-to-test circuits. See page 17 for wiring schematic.



AVAILABLE LENS COLORS FOR PUSH-TO-TEST PILOT LIGHTS.















Push Button Lens Guard

Guarded Push Button Lens

 Mushroom Lens — (1-1/2" (38mm) dia.)

Shrouded Mushroom Lens (1-1/2" (38mm) dia.)



30mm H-Line Push-To-Test Pilot Lights

Our 30mm H-Line Illuminated Push-To-Test Pilot Lights, when utilized with our LED lamps provide leakage protection, long-lasting life and high quality with tremendous resistance to shock and vibration. Our reflection technology and state-of-the-art LED lamps improve visibility from all angles. c3controls LED lamps last 100,000 hours — that's 11.4 years! Combine these LEDs with our full voltage or resistor packages for optimum durability. All c3controls 30mm H-Line operators are UL Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- All metal parts are nickel-plated for superior corrosion resistance.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- #6 stainless steel terminal screws with self-lifting captive wire clamps accommodate #22 through two #12 AWG wires (0.5 4mm²) per terminal.
- Operators conveniently mount in a round 1-13/64" (30.5mm) hole that is directly interchangeable with competitors units and eliminates the labor required for notching.

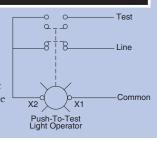
UNIQUE PRODUCT FEATURES



- 1. Our push-to-test pilot lights aid in the troubleshooting of the circuit.
- 2. Our seal is infused with a coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight. This seal also acts as a light reflector because it is white which increases light output and improves visibility from all angles.
- 3. Our rugged Lexan[™] lenses provide better visibility and can resist high impact for reliable performance in most environments, even in high ambient temperatures.
- **4.** These light units use a miniature bayonet base lamp which are nickel-plated for corrosion resistance and provide reliable lamp secureness.

WIRING DIAGRAM

Customer connections of line and test power supplies. Light unit is powered by the line circuit. Depressing the lens cap will disconnect the line and connect the test supply, confirming bulb status.



Some of Our Popular Configurations:

PUSH-TO-TEST PILOT LIGHTS W/POLYESTER CLAMP RING (TYPE 4X)

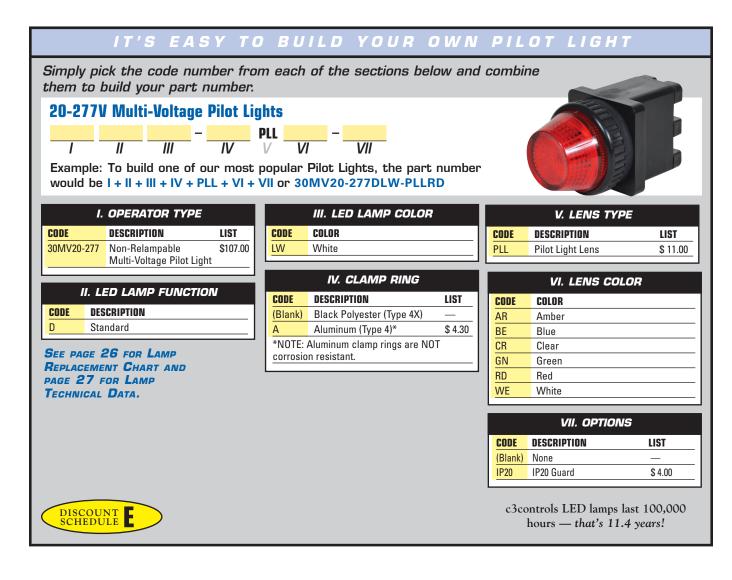
CATALOG NUMBER	DESCRIPTION	LIST
HPRFVPTT120-HIPBCAR	FV 120V w/ Incand. Lamp, Amber Lens & Herm. Seal. Reed	\$215.00
HFSFVPTT120-HIPBCGN	FV 120V w/ Incand. Lamp, Green Lens & Factory Seal. CB	\$203.00
HFSFVPTT120-HIPBCRD	FV 120V w/ Incand. Lamp, Red Lens & Factory Seal. CB	\$203.00



ADDED SECURITY!

For added security, all H-Line Push-To-Test Pilot Lights come standard with a screw tightening mounting bracket to ensure the contact blocks remain snug to the operator.





Some of Our Popular Configurations:

	MULTI-VOLTAGE PILOT LIGHTS	
CATALOG NUMBER	DESCRIPTION	LIST
30MV20-277DLW-PLLAR	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Amber Lens	\$118.00
30MV20-277DLW-PLLGN	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Green Lens	\$118.00
30MV20-277DLW-PLLRD	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Red Lens	\$118.00

AVAILABLE LENS COLORS FOR MULTI-VOLTAGE PILOT LIGHTS















30MM MULTI-VOLTAGE PILOT LIGHTS

When you match up our 30mm Pilot Lights with our LED lamps you get a quality, long-lasting, leakage protected pilot device that withstands shock and vibration. Our state-of-the-art LED lamps last 100,000 hours—that's 11.4 years! And we nest them in a bright white cup that casts light through two lenses scored to improve visibility from all angles. c3controls' 30mm multi-voltage pilot lights are UL listed and rated Type 4/4X as standard to resist water and corrosion. In addition, these lights are listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- #6 terminal screws with self-lifting captive wire clamps to accommodate #22 through two #12 AWG wires (0.5 4mm²) per terminal.
- Nickel plated clamp rings are ideal for corrosive environments. Heavy-duty brass current carrying components for improved conductivity and corrosion resistance.
- Bi-polar design means functionality is independent of which lead is connected to each terminal.
- Rugged Lexan™ lenses can resist high impact for reliable performance in most environments—even in high ambient temperatures.
- Superior performance even in high vibration and shock applications.
- Enhanced safety with field installable IP20 terminal guards are transparent to maintain terminal visibility. Their construction provides easy access to the device terminals—so wiring is convenient and quick, and they snap securely in place without tools.

For your convenience when marking terminals, our IP20 guards use Series WTB2 markers (see Section 22 Page 32), simplifying wiring and troubleshooting.



UNIQUE PRODUCT FEATURES



ELIMINATE THE HEADACHE OF MULTIPLE LIGHTS TO MATCH MULTIPLE VOLTAGES!

Our state-of-the-art, super bright LEDs and printed circuit boards allow you to operate this light at any voltage from 20V to 277V AC or DC without losing light intensity or consuming a lot of power. One light unit covers a lot of applications, reducing your inventory! All you have to do is choose your lens color.

- Wider operating voltage range of 20V-277V AC or DC.
- Depth behind the panel at 1-11/16" / 42.8mm.
- Integrated light circuit protection. We included a fusible link in the electronic circuit, resulting in predictable failure mode (open circuit) and improving reliability.
- A redesigned circuit allows you to use the light unit in a wider range of applications, including electronic and coil applications where leakage current and voltages may exist.





'S EASY TO BUILD YOUR OWN SELECTOR SWITCH

Simply pick the code number from each of the sections below and combine them to build your part number.

Selector Switches



Example: To build one of our most popular Selector Switches, the part number would be I + II + III + IV + V + VI or HSSOR3-SHWE-PRNO/PRNO

*NOTE: Contact block configurations are based on circuit designations (see page 21 for circuit designation charts).



I. SELECTOR SWITCH OPERATOR FUNCTION

CODE	POS./FUNCTION	LIST
FACT	ORY SEALED CONTACT BLOC	KS
HSS02	2/Maintained	\$ 25.00
HSROLR	2/Spring Return, L to R	\$ 42.00
HSRORL	2/Spring Return, R to L	\$ 42.00
HSS03	3/Maintained	\$ 25.00
HSROLC	3/Spring Return, L to C	\$ 42.00
HSRORC	3/Spring Return, R to C	\$ 42.00
HSROLRC	3/Spring Return, L & R to C	\$ 42.00
HEDMETICALLY STALED DEED		

CONTACT DEOCKS.			
HSS02	2/Maintained	\$ 25.00	
HSROLR	2/Spring Return, L to R	\$ 42.00	
HSRORL	2/Spring Return, R to L	\$ 42.00	
HSSOR3	3/Maintained	\$ 25.00	
HSROR3LC	3/Spring Return, L to C	\$ 42.00	
HSROR3RC	3/Spring Return, R to C	\$ 42.00	
HSROR3LRC	3/Spring Return, L & R to C	\$ 42.00	
•			

*NOTE: Remove "H" from code when ordering a Hermetically Sealed Reed in conjunction with a Logic Reed Contact Block.

II. CLAMP RING

CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
A	Aluminum (Type 4)*	\$ 4.30
*NOTE: Aluminum clamp rings are NOT		
corrosion resistant.		

|--|

CODE	DESCRIPTION	LIST
SH	Standard	\$ 9.80
SL	Lever	\$ 9.80

IV. HANDLE INSERT COLOR

CODE	COLOR
BE	Blue
GN	Green
GY	Grey
RD	Red
WE	White
YW	Yellow

Each operating handle is black with a factory assembled color insert.

- ** Contact blocks wired in Series or wired in Parallel use both the left and right sides of the pilot device. They are not factory-compatible with additional contact blocks.
- † We recommend that any Normally Closed Logic Reed Contact Block be mounted to the operator before Normally Open Contact Blocks are mounted.

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
FACTORY SEALED, CLASS 1, DIV. 2/ZONE 2, 720 VA		
(Blank)	Operator without Contact Blocks	_
CBFSR	Contact Block with 1 Normally Open/1 Normally Closed	\$ 94.00

POWER REED, CLASS 1, DIV. 2/ZONE 2, 360 VA INDUCTIVE

(Blank)	Operator without Contact Blocks	
PRN0	1 Normally Open Contact Block	\$74.00
PRNC	1 Normally Closed Contact Block	\$74.00
PR2N0	Contact Block w/2 Normally Open	\$118.00
PR2NC	Contact Block w/2 Normally Closed	\$118.00
PRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$118.00
PRNCS	2 Normally Closed Contact Blocks Wired in Series**	\$153.00
PRNOP	2 Normally Open Contact Blocks Wired in Parallel**	\$153.00

MID-POWER	REED, CLASS 1, DIV. 2/ZONE 2, 180 VA INI	DUCTIVE
Blank)	Operator without Contact Blocks	
MPRN0	1 Normally Open Contact Block	\$ 59.00
MPRNC	1 Normally Closed Contact Block	\$ 59.00
MPR2N0	Contact Block w/2 Normally Open	\$102.00
MPR2NC	Contact Block w/2 Normally Closed	\$102.00
MPRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$102.00
MPRNCS	2 Normally Closed Contact Blocks Wired in Series**	\$123.00
MPRN0P	2 Normally Open Contact Blocks Wired in Parallel**	\$124.00

MEDIUM LOGIC REED, CLASS 1, DIV. 2/ZONE 2, 40 VA INDUCTIVE, 100 WATT'S RESISTIVE†

(Blank)	Operator without Contact Blocks	_
MLRN0	1 Normally Open Contact Block	\$ 35.00
MLRNC	1 Normally Closed Contact Block	\$ 35.00
MLR2N0	Contact Block w/2 Normally Open	\$ 55.00
MLR2NC	Contact Block w/2 Normally Closed	\$ 55.00
MLRNONC	Contact Block with 1 Normally Open/1 Normally Closed	\$ 55.00
MLRNCS	2 Normally Closed Contact Blocks Wired in Series**	\$ 74.00
MLRNOP	2 Normally Open Contact Blocks Wired in Parallel**	\$ 75.00

LOCIC DEED, CLACC 4, DIM 9/20ME 9, 40 MATTE DECICTIVE

LUGIC KEEL	I, GLAGO I, DIV. 2/LUINE 2, 40 WAI IO KEGIO	IIVE" †
(Blank)	Operator without Contact Blocks	_
LRN0	1 Normally Open Contact Block	\$ 22.00
LRNC	1 Normally Closed Contact Block	\$ 22.00
LRNCS	2 Normally Closed Contact Blocks Wired in Series**	\$ 47.00
LRNOP	2 Normally Open Contact Blocks	\$ 48.00
	Wired in Parallel**	
*NIOTE, L:-	Daniela da matematica and analysis and all	

*NOTE: Logic Reeds do not require and are not provided with a Mounting Screw.

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)





30mm H-Line Selector Switches

With our unique universal cam design, c3controls Selector Switches offer multiple functions in a single device eliminating the need to install separate devices to perform individual functions based on contact block configuration. In addition, interchangeable selector handles provide product selection and field flexibility. All operators feature polyester housings, are UL

HANDLE POSITIONS			
2-POSITION 3-POSITION			

Listed and are rated Type 4/4X standard for watertight and corrosion resistance. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements.



UNIQUE PRODUCT FEATURES

SAVE TIME & MONEY - WITH C3CONTROLS, ONE CAM DOES IT ALL!



- 1. One-Cam does it all vs. our competitors who need up to fifteen cams to perform the same function. This One-Cam design eliminates the need for multiple cam configurations and selector switch configuration nightmares, saving time, inventory, money, and ensuring 100% cam selection configuration accuracy.
 - Our revolutionary U-Cup seal is infused with a Teflon coating to eliminate cracking when exposed to harsh conditions such as heat, dryness and sunlight.
 - 3. All frictional parts are molded with an internal self-lubricant to provide outstanding wear and smooth cam operations without troublesome greases used by others that attracts dust and other particles in the area.

FACTORY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES					
CIRCUIT DESIG.	HANDLE LEFT	POSITION RIGHT	CONTACT BLOCK CATALOG NO.	MOUNTING POSITION	
A	0 X	X 0	CBFSR	EITHER	

FACTORY SEALED BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES					
CIRCUIT	HAI	VDLE POS	ITION	CONTACT BLOCK	MOUNTING
DESIG.	LEFT	CENTER	RIGHT	CATALOG NO.	POSITION
В	Х	0	0	CBFSR	LEFT
	0	Х	0		
С	0	0	Χ	CBFSR	RIGHT
	0	X	0		

$O = OPEN \quad X = CLOSED$

HERMETICALLY SEALED BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES					
HANDLE POSITION		CONTACT BLOCK	MOUNTING		
LEFT	RIGHT	CATALOG NO.	POSITION		
0	Χ	PRN0	EITHER		
Χ	0	PRNC	EITHER		
0 X	X 0	PRNONC	EITHER		
	HANDLE I LEFT O X	HANDLE POSITION LEFT RIGHT O X X O O X	HANDLE POSITION		

	HERMETICALLY SEALED REED CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES							
CIRCUIT HANDLE POSITION POWER REED MID-POWER REED MEDIUM REED LOGIC REED MOUNTING						MOUNTING		
DESIG.	LEFT	CENTER	RIGHT	CAT. #	CAT. #	CAT. #	CAT. #	POSITION
G	Χ	0	0	PRN0	MPRN0	MLRN0	LRN0	LEFT
Н	0	Χ	0	PRNCS (PRNC/PRNC)	MPRNCS (MPRNC/MPRNC)	MLRNCS (MLRNC/MLRNC)	LRNCS (LRNC/LRNC)	BOTH WIRED IN SERIES
I	0	0	Χ	PRN0	MPRN0	MLRN0	LRN0	RIGHT
J	0	Х	Χ	PRNC	MPRNC	MLRNC	LRNC	LEFT
K	Χ	0	Χ	PRNOP (PRNO/PRNO)	MPRNOP (MPRNO/MPRNO)	MLRNOP (MLRNO/MLRNO)	LRNOP (LRNO/LRNO)	BOTH WIRED IN PARALLEL
L	Χ	Х	0	PRNC	MPRNC	MLRNC	LRNC	RIGHT

MIX AND MATCH ANY INSERT COLOR AND SELECTOR SWITCH HANDLE













Standard Handle

- Lever Handle

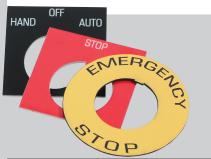


IT'S EASY TO BUILD YOUR OWN LEGEND PLATE

Simply pick the code number from each of the sections below and combine them to build your part number.



Legend plates feature 2 lines of text with approximately 16 characters per line. Uppercase is standard unless specified. *The tall legend plate (LPT) features 3 lines of text with approximately 16 characters per line.



	I. LEGEND PLATE TYPE	
CODE	DESCRIPTION	LIST
LP	Standard 2"h x 2"w	\$ 4.00
LPN	Narrow 2"h x 1-3/4"w	\$ 4.00
LPS	Short 1-3/4"h x 2"w	\$ 4.00
LPT	Tall 2-1/4"h x 2"w*	\$ 5.00
LPR	Standard Round 2-13/32" Dia.	\$ 9.00
LPRM	Medium Round 2-3/4" Dia.	\$11.00
LPRJ	Jumbo Round 3-3/4" Dia.	\$12.00

II. FACE AND LETTER COLOR				
FACE COLOR	LETTER COLOR			
Aluminum	Black			
Black	White			
Blue	White			
Green	White			
Red	White			
White	Black			
Yellow	Black			
	FACE COLOR Aluminum Black Blue Green Red White			

III. LEGEND DESIGNATION

A. PU	A. PUSH BUTTONS AND LIGHTS			
CODE	DESCRIPTION			
00	(Blank)			
01	AUT0			
02	CLOSE			
31	CYCLE START			
100	CYCLE STOP			
03	DOWN			
102	EMERGENCY			
04	EMERGENCY STOP			
06	FAST			
101	FAULT			
07	FORWARD			
08	HAND			
32	HIGH			
33	IN			
09	INCH			
10	JOG			
38	JOG FORWARD			
39	JOG REVERSE			
34	LOW			
35	LOWER			
11	MANUAL			
26	MOTOR RUN			
12	0FF			
13	ON			
14	OPEN			
36	OUT			
27	OVERLOAD			
15	POWER OFF			
16	POWER ON			
30	PUSH TO RESET			
17	PUSH TO TEST			
37	RAISE			
109	READY			
18	RESET			
19	REVERSE			
20	RUN			
21	SLOW			
22	START			
23	ST0P			
24	TEST			
29	TRIP			

CODE	LEGEND LEFT	LEGEND RIGHT
00	(Blank)	(Blank)
50	AUT0	HAND
68	AUT0	MANUAL
51	DOWN	UP
63	FAST	SLOW
52	FWD	REV
53	HAND	AUT0
73	HIGH	LOW
54	INCH	RUN
75	LEFT	RIGHT
70	LOCAL	REMOTE
55	MANUAL	AUT0
56	0FF	ON
57	ON	OFF
58	OPEN	CLOSE
65	PULL START	PUSH STOP
66	PUSH OFF	PULL ON
64	PUSH ON	PUSH OFF
67	PUSH TO STOP	PULL TO START
71	RAISE	LOWER
59	REV	FWD
60	RUN	JOG
69	SLOW	FAST
61	START	STOP
62	ST0P	START
74	SUMMER	WINTER
72	UP	DOWN

B. 2-POSITION SELECTOR

	C. 3-POSITION SELECTOR					
CODE	LEGEND LEFT	LEGEND CENTER	LEGEND RIGHT			
00	(Blank)	(Blank)	(Blank)			
108	Α	0	Н			
92	AUT0	0FF	HAND			
93	AUT0	MAN	OFF			
80	DOWN	0FF	UP			
81	FWD	AUT0	REV			
82	FWD	0FF	REV			
107	Н	0	A			
83	HAND	0FF	AUT0			
94	HIGH	0FF	LOW			
99	JOG	0FF	AUT0			
90	LOCAL	0FF	REMOTE			
84	MANUAL	0FF	AUT0			
89	OFF	RUN	START			
85	0FF	START	RUN			
86	0FF	1	2			
95	OPEN	0FF	CLOSE			
91	RAISE	0FF	LOWER			
96	SLOW	OFF	FAST			
97	SUMMER	OFF	WINTER			
98	UP	OFF	DOWN			
87	1	OFF	2			
88	1	2	3			

C 3-DOCITION SELECTOR



IV. ADHESIVE BACK		
CODE	DESCRIPTION	
(Blank)	No Adhesive Back	
Α	Adhesive Back	

UP

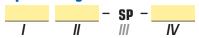
PURGE LEVEL



IT'S EASY TO BUILD YOUR OWN LEGEND PLATE

Simply pick the code number from each of the sections below and combine them to build your part number.

Special Legend Plates



	I. LEGEND PLATE TYPE	
CODE	DESCRIPTION	LIST
LP	Standard 2"h x 2"w	\$ 4.00
LPN	Narrow 2"h x 1-3/4"w	\$ 4.00
LPS	Short 1-3/4"h x 2"w	\$ 4.00
LPT	Tall 2-1/4"h x 2"w*	\$ 5.00
LPR	Standard Round 2-13/32" Dia.	\$ 9.00
LPRM	Medium Round 2-3/4" Dia.	\$11.00
LPRJ	Jumbo Round 3-3/4" Dia.	\$12.00

Legend plates feature 2 lines of text with approximately 16 characters per line.

*The tall legend plate (LPT) features 3 lines of text with 16 characters per line.



All legend plates are a 2-ply laminated plastic, laser engraved for a permanent and quality appearance. Uppercase is standard unless specified.

II. FACE AND LETTER COLOR			
CODE	FACE COLOR	LETTER COLOR	
AL	Aluminum	Black	
(Blank)	Black	White	
BE	Blue	White	
GN	Green	White	
RD	Red	White	
WE	White	Black	
YW	Yellow	Black	

III. LEGEND DESIGNATION		
CODE	DESCRIPTION	LIST
SP	Special Legend	\$14.00

IV. ADHESIVE BACK		
CODE	DESCRIPTION	
(Blank)	No Adhesive Back	
Α	Adhesive Back	

Upon receipt of your order, legend plates will be set-up as specified and a proof will be sent

To order, submit your drawing to:

Mail: c3controls

Attn: Customer First PO Box 496 Beaver, PA 15009

to you prior to production to ensure accuracy.

Fax: 724.775.5283

Email: legendplates@c3controls.com

To help simplify your order process, templates are available by calling our factory at 724.775.7926 or reference one of the drawings shown on page 36.

Special legend plates are not available for same day shipping.



(Sample custom plate)

CUSTOM LEGEND PLATES

- Add your Corporate Logo! Send us your corporate logo electronically to promote your company image in a clean professional legend plate.
- \bullet Available in 2-ply 12" x 24" (304.8mm x 609.6mm) sheets of laminated plastic for custom laser engraving.
- To order, specify part number LP-CP (no adhesive back) or LP-CP-A (adhesive back).
- Initial Set-Up Fee Per Legend Plate: \$50/hour (minimum fee \$50.00).
- \$2.00/Square Inch (minimum \$18.00).
- Design services available. Consult factory for details and hourly rate.
- Custom legend plates are not available for same-day shipping.

To order, submit your drawing to:

Mail: c3controls

Attn: Customer First PO Box 496 Beaver, PA 15009

Fax: 724.775.5283

Email: legendplates@c3controls.com



EXTENDED CLAMP RINGS



We offer four types of 30mm extended clamp rings that guard against accidental operation. Use our Extended Clamp Rings (ECR or AECR) with flush caps, our Clear Guarded Clamp Ring (EECR) with illuminated push buttons and our Large Extended Clamp Ring (LECR) with flush or extended caps, which also provides easier access to your push buttons.

COD HEE WITH NON HILIMINATED CARE

ION OUL WITH MON-ILLUMINATED GAPS		
CODE	DESCRIPTION	LIST
ECR	Extended Ring	\$ 6.00
LECR	Large Extended Ring	\$10.00
AECR	Aluminum Extended Ring	\$10.00
FOR USE WITH ILLUMINATED CAPS		
CODE	DESCRIPTION	LIST

GUARD ATTACHMENT

Guarded Clear Polyester Ring \$ 8.00

EECR

Our PPGD guards against accidental operation and is made of a high strength polyester material.

CODE	FITS	LIST
PPGD	Maintained Push Buttons	\$40.00

MECHANICAL INTERLOCK

Our Mechanical Interlock features a 2" (50.8mm) center and can be used to interlock two adjacent operators. This may also be used to interlock a two-unit maintained/momentary assembly. NOTE: Factory installation recommended.

CODE	DESCRIPTION	LIST
MI	30mm Mechanical Interlock	\$48.00

Use to seal unused panel holes. Our hole plug comes with additional sealing panel gaskets to ease installation and is rated Type 4X. CODE DESCRIPTION LIST HP 30mm Grey Hole Plug \$11.00

LOCK OFF ATTACHMENTS

c3controls offers a wide variety of 30mm corrosive resistant lock-off attachments for maintained and momentary push buttons and selector switches. Our LOAX, LOAM and LOAP lock-offs permit locking



LOAX/LOAM/LOAP

CODE	FITS	LIST
LOAX	Standard Extended Cap	\$32.00
LOAM	Standard Momentary Mushroom Cap	\$32.00
LOAP	Push-Pull Maintained Mushroom Cap (PPMC) or Push Maintained Extended Cap (PMXC)	\$32.00
LOAFC	Most Push Buttons and Selector Switches	\$50.00

PANEL GASKETS

Our panel gaskets are constructed of Neoprene for long life and low compression set and provide a watertight seal. Panel gaskets are supplied to accommodate

different panel thickness. In order to meet Type 4/4X requirements, at least one 1/16" (1.6mm) gasket must be used. NOTE: All c3controls 30mm operators are provided with gaskets.

CODE	DESCRIPTION	LIST
PG2	1/16" (1.6mm) Gasket	\$ 1.00
PG6	3/16" (4.8mm) Gasket	\$ 1.00

THOUGH & TOIM WASHEDS



Anti-rotation device for use with 30mm push buttons, selector switches and pilot lights to provide additional protection from rotation and aid in alignment. This product is optional with c3controls gasket technology.

CODE	DESCRIPTION	LIST
TTW	30mm Anti-Rotation Washers	\$ 4.00

PUSH MAINTAINED FLUSH AND EXTENDED CAPS

Use with a secondary standard cap and mechanical interlock to provide two button momentary/maintained operation or use on adjacent operators with mechanical interlock to provide two-button maintained/maintained operation.

COLOR	FLUSH CODE	EXTENDED CODE	LIST
WITH BL	ACK POLYESTI	ER (TYPE 4X) CLA	MP RING
Black	PMFCBK	PMXCBK	\$44.00
Green	PMFCGN	PMXCGN	\$44.00
Red	PMFCRD	PMXCRD	\$44.00
Yellow	PMFCYW	PMXCYW	\$44.00
WITH	ALUMINUM	(TYPE 4) CLAMP	RING*
Black	APMFCBK	APMXCBK	\$48.00
Green	APMFCGN	APMXCGN	\$48.00
Red	APMFCRD	APMXCRD	\$48.00
Yellow	APMFCYW	APMXCYW	\$48.00
*NOTE: Aluminum clamp rings are NOT corrosion resistant.			

CLAMP RING WRENCH



To simplify tightening and loosening of standard polyester and aluminum 1-3/8" (34.9mm) octagonal clamp rings. Won't scratch your lens or panel.

CODE	DESCRIPTION	LIST
CRW	30mm Clamp Ring Wrench	\$20.00

RESET PUSH BUTTON

Our unique Reset Push Button mounts in a standard 1-13/64" (30.5mm) hole and accepts either 20 hex head bolts or 20 thread rod to provide adjustable extension and save on all rod cutting and fitting labor. Universal styles include two bolts

to cover 1" to 3" (25.4mm to 76.2mm) space from cover to overload reset rod. It is rated Type 4/4X as standard.

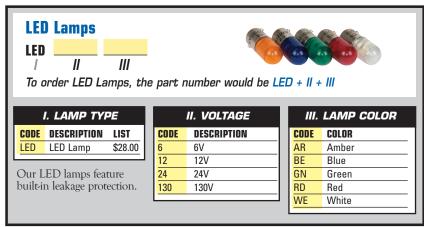
		_	
CODE	DESCRIPTION	LIST	
RPB	Reset Push Button	\$18.00	
RPB-B	RPB w/Bolts	\$20.00	
	(1/4-20 x 1-3/4" & 3")		
RPB-W	RPB w/Washers	\$20.00	
RPB-BW	RPB w/Bolt & Washer Set	\$22.00	
RPB BOLTS	2 Bolts (1/4-20 x 1-3/4" & 3")	\$ 2.00	
RPB WASHERS	Washer Set	\$ 2.00	
Special bolt lengths available - please consult factory (not available for guaranteed same day shipping).			





LED. INCANDESCENT & NEON REPLACEMENT LAMPS

c3controls offers a full range of lamp options in a miniature bayonet base for direct interchangeability which provides flexibility in choosing the best lamp for each installation application. Multiple voltage options in Incandescent, LED and Neon lamps are available. Refer to the chart on page 26 to determine the appropriate replacement lamp based on your operator voltage. For lamp technical data, see page 27.



Incandescent Lamps						
CODE	VOLTAGE	LIST				
FVB6	6V	\$ 4.00				
FVB12	12V	\$ 4.00				
FVB24	24V	\$ 4.00				
FVB55	55V	\$ 8.00				
FVB120	120V	\$ 8.00				
FVB6F	6V Flashing*	\$12.00				
*NOTE: There may be a 5-15 second delay before flashing begins.						





LAMP REMOVAL TOOL



CODE	DESCRIPTION	LIST
LRT	Lamp Removal Tool	\$ 8.00



30MM REPLACEMENT LAMPS & TEMPERATURE RATINGS

30MM REPLACEMENT LAMP REFERENCE CHART (FOR REFERENCE ONLY - USE CHARTS ON PAGE 25 TO ORDER)							
OPERATOR CODE	OPERATOR VOLTAGE	LED (ALL COLORS)	INCANDESCENT	NEON			
HFVLU6	Full Voltage 6V AC/DC	LED6	FVB6 or FVB6F	_			
HFVLU12	Full Voltage 12V AC/DC	LED12	FVB12	_			
HFVLU24	Full Voltage 24V AC/DC	LED24	FVB24	_			
HFVLU120	Full Voltage 120V AC/DC	LED120	FVB120	FVB120NG or FVB120NR			
HRLU120L	Resistor 120V AC/DC*	LED24	_	_			
HRLU120I	Resistor 120V AC/DC*	_	FVB55	_			
HRLU240L	Resistor 240V AC/DC*	LED24	_	_			
HRLU240I	Resistor 240V AC/DC*	_	FVB120				
HRLU240N	Resistor 240V AC/DC*	_	_	FVB120NG or FVB120NR			
HRLU480	Resistor 480V AC/DC*	LED130	_	FVB120NG or FVB120NR			
HRTLU6	Dual Input 6V AC/DC	LED6	FVB6	_			
HRTLU12	Dual Input 12V AC/DC	LED12	FVB12				
HRTLU24	Dual Input 24V AC/DC	LED24	FVB24	_			
HRTLU120L	Dual Input 120V AC/DC	LED130	_				
HRTLU120	Dual Input 120V AC/DC	_	FVB55	_			
*NOTE: Lamps are ur	nique to Resistor Light Units. Refer to	side of light unit for correct repla	cement lamp part number.				

	H-LINE UL TEMPERATURE RATIN	NGS			
LAMP TYPE	CLASS DESIGNATION	TEMPERATURE			
FULL VOLTAGE INDICATING L	IGHTS (Temperature rating is determined based on maximum	m lamp temperature)			
Incandescent	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T4A, 248° F (120° C) T4A, 248° F (120° C)			
Neon	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T6, 185° F (85° C) T6, 185° F (85° C)			
LED	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T6, 185° F (85° C) T6, 185° F (85° C)			
RESISTOR LIGHTS (Tempera	ature rating is a function of the maximum lamp or resistor te	emperature obtained under power)			
Incandescent	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T3C, 320° F (160° C) T3C, 320° F (160° C)			
Neon	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T4A, 248° F (120° C) T4A, 248° F (120° C)			
LED	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T4A, 248° F (120° C) T4A, 248° F (120° C)			
MULTI-VOLTAGE LIGHTS (20V - 277V AC/DC)					
LED	Class 1, Div 2, Groups A,B,C,D Class 1, Zone 2 IIC	T4A, 248° F (120° C) T4A, 248° F (120° C)			

Section 14 | 26 724.775.7926 :: www.c3controls.com



30MM HAZARDOUS DUTY PILOT DEVICES

ELECTRICAL RATINGS								
Lamp	Industry Number	Rated Volts	Lumens (MSCD)	Design Life (Hrs.)	Current Draw (mA)	Lamp Type	Shock & Vibration	Leakage Protection
FVB6	1866	6.3V	0.65	5,000	250	Incandescent	Very Good	N/A
FVB12	756	14V	0.31	15,000	80	Incandescent	Good	N/A
FVB24	757	28V	0.62	7,500	80	Incandescent	Good	N/A
FVB55	1835	55V	1.1	5,000	50	Incandescent	Good	N/A
FVB120	**	130V	0.36	10,000	20	Incandescent	Good	N/A
LED6	**	6V†		100,000	50	LED	Excellent	14 mA
LED12	**	12V†	Varies w/ Color	100,000	<20	LED	Excellent	4 mA
LED24	**	24V†	2000 mcd Typical	100,000	<20	LED	Excellent	4 mA
LED130	**	120/130V†	турісат	100,000	<10	LED	Excellent	2 mA
FVB120NG	_	95-135V	Typical (Glows)	25,000	<5	Neon/Green	Very Good	N/A
FVB120NR	_	95-135V	Typical (Glows)	25,000	<5	Neon/Red	Very Good	N/A

^{**}Designates a lamp design optimized for c3controls Illuminated devices. See LED replacement lamps on page 25.

MULTI-VOLTAGE POWER CONSUMPTION & CURRENT DRAW

System Voltage	AC Current Draw (mA)	DC Current Draw (mA)	Power Consumption (W)
24V	21	20	
48V	17	7	
120V	3.5	_	
125V	_	3	AC: <1 DC: <1/2
240V	2.5	_	
250V	_	2	
277V	2.5	_	

PROTECTION FEATURES

Fused to Fail Open

Yes

DIELECTRIC STRENGTH (TERMINAL TO GROUND)

2200V for 1 Minute

CONTACT BLOCKS

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.

FACTORY SEALED CONTACT BLOCK - CBFS/CBFSR - Class I Div. 2 Gr. B, C & D / Zone 2 Gr. IIB +H2

	Utilizatio	on Category			
	IEC	UL	Make Rating	Break Rating	Ith-Thermal Current
AC	AC-15	A600	7200VA	720VA	10A
DC	DC-13	P300	138VA	138VA	5A

NOTE: For AC voltage below 72V AC the maximum allowed switching current is 10A = lth. For DC voltages below 28V DC the maximum allowed switching current is 5A = lth. For switching applications below 24V/40mA, Hermetic REED contacts are recommended.

HERMETICALLY SEALED POWER REED CONTACT BLOCK - Class I Div. 2 Gr. A, B, C & D / Zone 2 Gr. IIC

	Utilization Category				
	IEC	UL	Make Rating	Break Rating	Ith-Thermal Current
AC	AC-15	B300	3600VA	360VA	5A
	AC-15	C600	1800VA	180VA	2.5A
DC	DC-13	Q300	69VA	69VA	2.5A

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

[†] LED voltage tolerance is +/- 10%

30MM HAZARDOUS DUTY PILOT DEVICES							
CONTACT BLOCKS (CONTINUED)							
HERMETICALLY SEALED MEDIUM-LOGIC REED CONTACT BLOCK - Class Div. 2 Gr. A, B, C & D / Zone 2 Gr. IIC							
			on Category				
		IEC	UL	Inductive	Resistive	Ith-Thermal Current	
	AC	AC-12	250V Max.	40VA	100 Watt	3A	
NOTE: Suitable for switching DRY Circ	NOTE: Suitable for switching DRY Circuits and Low Energy Circuits (Less than 24V-40mA).						
HERMETICALLY SEALED MID-POWE				/ Zone 2 Gr. IIC			
Utilization Category							
		IEC	UL	Make Rating	Break Rating	Ith-Thermal Current	
	AC	AC-15	C300	1800VA	180VA	2.5A	
	DC	DC-13	Q150	69VA	69VA	2.5A	
NOTE: For AC voltage below 72V AC the				Itages below 28V DC the	maximum allowed swi	tching current is 2.5A = Ith.	
Suitable for switching DRY Circuits an							
HERMETICALLY SEALED LOGIC REED	CONTACT BLO	ICK - Class I Div. 2 G	Gr. A, B, C & D / Zone	2 Gr. IIC			
			on Category		_		
		IEC	UL	Inductive	Resistive	Ith-Thermal Current	
	AC		250V Max.	N/A	40 Watt	2A	
NOTE: Suitable for switching DRY Circ		ergy Circuits (Less th	nan 24V-40mA).				
	UNITS						
ENVIRONMENTAL RATINGS							
Operators			Rated and Co	ertified for us in Type 1,	2, 3, 3R, 4/4X, 12 & 13	and IP65	
Operating Temperature	°F/°C			-40 to +131 / -4) to +55		
Storage Temperature	°F/°C			-40 to +185 / -4) to +85		
NOTE: Operating environments below	freezing tempe	ratures are assumed	to be absent of freez	ing liquids or pollutants			
TERMINAL & WIRING CONSIDERATION							
AWG Conductor		22-12 C	U (Copper only - Soli	d & Stranded) [.5 ~ 4mm	²] One or two wires pe	ermitted per termination	
Recommended Torque	Lb-in. [Nm]	7 – 10 [.8]					
CONSTRUCTION							
OPERATING FORCES							
PUSH BUTTONS (OPERATORS ONLY)							
Momentary	lbs. [N]			1.3 [5.8]			
Illuminated Momentary	lbs. [N]			2.8 [12.4]			
Maintained	lbs. [N]			4 - 6 [17.9 - 1	26.7]		
Illuminated Maintained	lbs. [N]			4.6 [20.5]			
RESET PUSH BUTTON	lbs. [N]			1.5 [6.7]			
SELECTOR SWITCHES							
Maintained	in-lbs. [Nm]			1.7 [.19]			
Momentary	in-lbs. [Nm]			1.7 [.19]			
PUSH-TWIST RELEASE	lbs. [N]	4.7 [20.9]					
STANDARD CONTACT BLOCKS	lbs. [N]	1 [4.45]					
INDICATING LIGHTS		Refer to the appropriate Lamp Data					
MULTI-VOLTAGE LIGHTS	VAC/VDC	20-277 (Burden .816W Max.)					
MECHANICAL ENDURANCE							
PUSH BUTTONS							
Maintained	Ops.	5,000,000					
Momentary	Ops.	250,000					
SELECTOR SWITCHES	Ops.			500,000			
ALL OTHER DEVICES	Ops.	250,000					
STANDARD CONTACT BLOCKS	Ops.	10,000,000					
INDICATING LIGHTS	Ops.			Refer to the appropr	iate Lamp Data		

Section 14 | 28 724.775.7926 :: www.c3controls.com

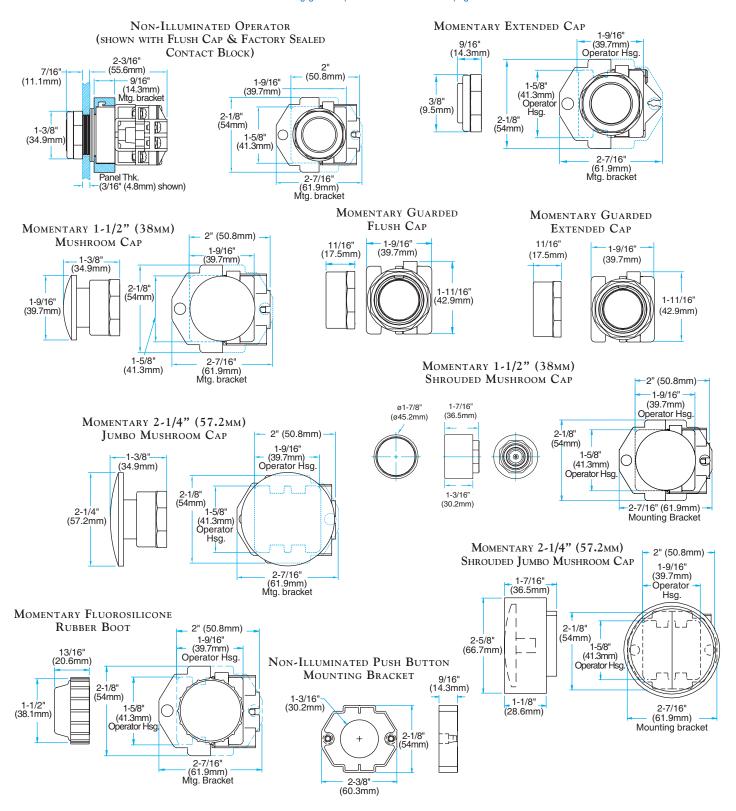


	30MM HAZARDOUS DUTY PILOT DEVICES	
	INITS	
MATERIALS		
Operator Housings	Thermoplastic Polyester and Polyester Blends (UV Stabilized for	· · · · · · · · · · · · · · · · · · ·
Operator Caps and Handles - Non-Illuminated (Glass Reinforced Grades)	Thermoplastic Polyester and Polyester Blends (UV Stabilized f	or outdoor use)
Mounting Rings and Nuts	Thermoplastic Polyester and Polyester Blends (UV Stabilized for	or outdoor use)
Thrust Washer	Thermoplastic Polyester and Polyester Blends (UV Stabilized for	or outdoor use)
Trim Washer	Thermoplastic Polyester and Polyester Blends (UV Stabilized for	or outdoor use)
Pilot Light Lens	High Impact Polycarbonate (UV Stabilized for outdoo	r use)
Transparent Push Button and Mushroom Caps	High Impact Polycarbonate (UV Stabilized for outdoo	r use)
Certain CAM and Bearing Parts	Custom Polymers: Teflon, Silicon and Moly-Disulfide impregnated fo	r improved wearability
Rubber Boots	Custom Polymers: Fluorosilicone and Thermoplastic N	eoprene
Seals	Neoprene Gaskets	
	Thermoplastic - Molded Neoprene and Alloy De	erivitives
	BUNA N - Rubber - Teflon Coated	
	Thermoplastic - Elastomer Molded Seals	
	Fluorosilicone - Boots	
Push Pull Bearings	Stainless Steel	
Internal Tubes for Maintained Devices	Stainless Steel	
Detents for Maintained Devices	Stainless Steel	
Springs & Screws	Stainless Steel	<u> </u>
Optional Mounting Nut	Aluminum	<u> </u>
ROHS COMPLIANCE	For RoHS compliance documentation by product, refer to www	w.c3controls.com



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. See mounting gasket specifications chart #3 on page 36.



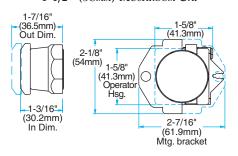
S



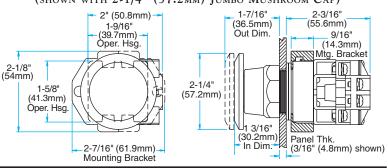
MAINTAINED NON-ILLUMINATED H-LINE PUSH BUTTONS

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #3 on page 36.

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



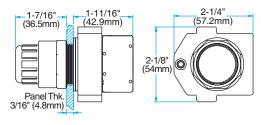
2-Position Push-Pull Maintained Operator (shown with 2-1/4" (57.2mm) Jumbo Mushroom Cap)



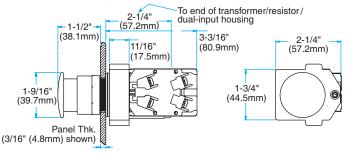
MOMENTARY ILLUMINATED H-LINE PUSH BUTTONS

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #3 on page 36.

ILLUMINATED FULL VOLTAGE OPERATOR (SHOWN WITH HIPBC)



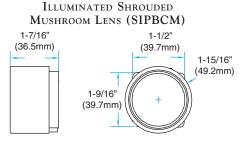
ILLUMINATED RESISTOR AND DUAL INPUT OPERATORS (SHOWN WITH HIPBCM)

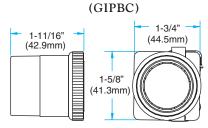


MOUNTING BRACKET 9/16" (14.3mm) (1-3/16" (2-1/8" (54mm))

2-1/4" (57.2mm)

ILLUMINATED PUSH BUTTON



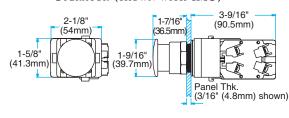


ILLUMINATED GUARDED LENS

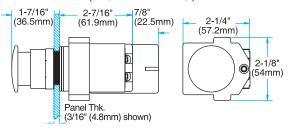
2-POSITION PUSH-PULL MAINTAINED ILLUMINATED H-LINE PUSH BUTTONS

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #1 on page 36.

ILLUMINATED FULL VOLTAGE OPERATOR (SHOWN WITH IMC)



ILLUMINATED RESISTOR OPERATOR (SHOWN WITH IMC)

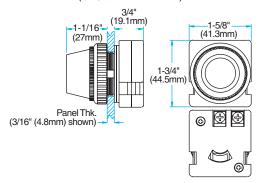




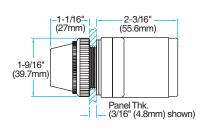
H-LINE PILOT LIGHTS

Fully-assembled operators come standard with one 3/16" (4.8mm) and two 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #2 on page 36.

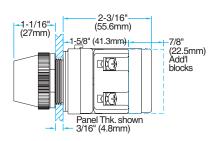
FULL VOLTAGE PILOT LIGHT OPERATOR (SHOWN WITH PLL)



RESISTOR PILOT LIGHT OPERATOR (SHOWN WITH PLL)



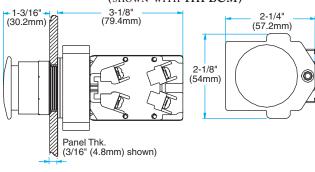
DUAL INPUT
PILOT LIGHT OPERATOR
(SHOWN WITH PLL)



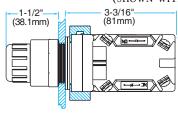
PUSH-TO-TEST H-LINE PILOT LIGHTS

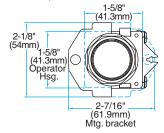
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #2 on page 36.

FULL VOLTAGE PUSH-TO-TEST OPERATOR (SHOWN WITH HIPBCM)

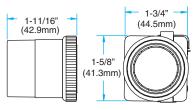


RESISTOR PUSH-TO-TEST OPERATOR (SHOWN WITH HIPBC)

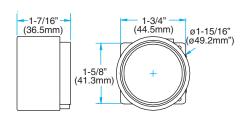




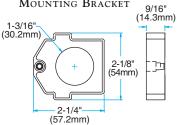
GUARDED LENS



SHROUDED MUSHROOM LENS



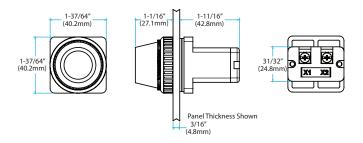
ILLUMINATED PUSH-TO-TEST
MOUNTING BRACKET





MULTI-VOLTAGE H-LINE PILOT LIGHT

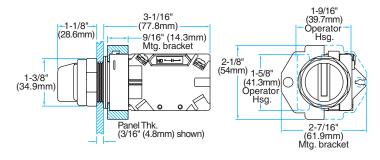
Fully-assembled operators come standard with four 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #2 on page 36.



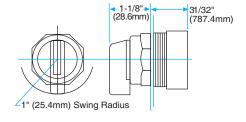
HJ INE SELECTOR SWITCHES

Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #3 on page 36.

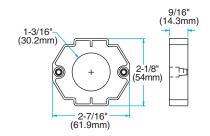
SELECTOR SWITCH OPERATOR (SHOWN WITH STANDARD HANDLE)



SELECTOR SWITCH LEVER HANDLE



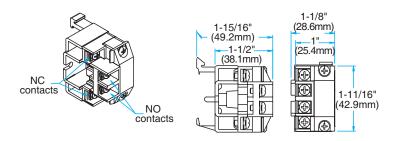
SELECTOR SWITCH MOUNTING BRACKET



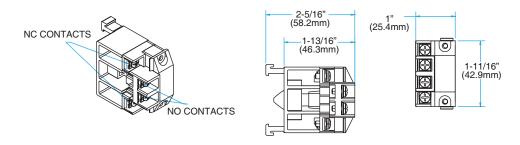


H-LINE CONTACT BLOCKS

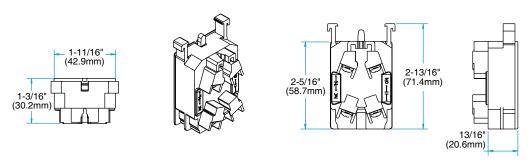
FACTORY SEALED CONTACT BLOCKS - CBFS



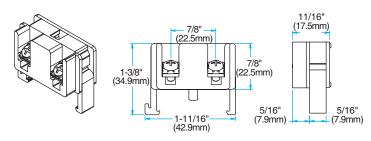
FACTORY SEALED CONTACT BLOCKS - CBFSR



POWER REED, MID-POWER REED & MEDIUM LOGIC REED CONTACT BLOCKS



LOGIC REED CONTACT BLOCK



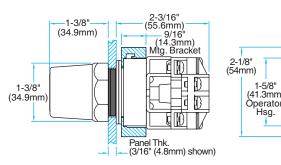
Section 14 | 34 724.775.7926 :: www.c3controls.com

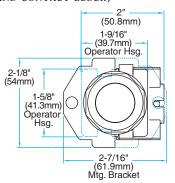


MAINTAINED FLUSH & EXTENDED H-LINE PUSH BUTTON CAPS

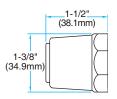
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #3 on page 36.

MAINTAINED FLUSH PUSH BUTTON CAP (SHOWN WITH AN OPERATOR AND CONTACT BLOCK)





Maintained Extended Push Button Cap

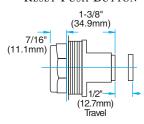


H-LINE RESET PUSH BUTTON

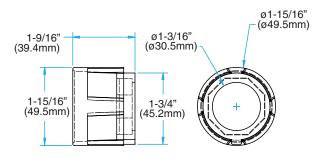
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

See mounting gasket specifications chart #3 on page 36.

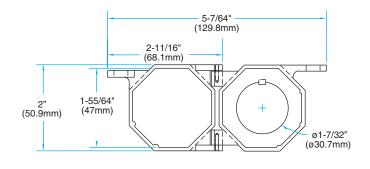
RESET PUSH BUTTON

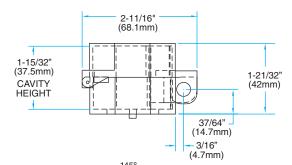


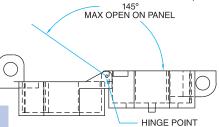
GUARD ATTACHMENT



LOCK-OFF ATTACHMENT



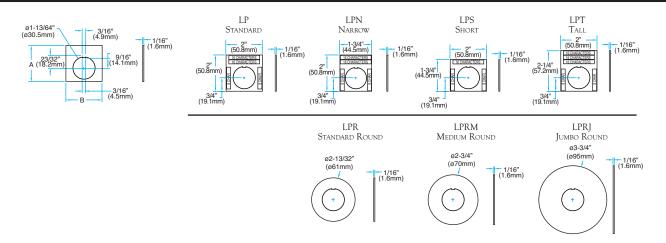




VISIT WWW.C3CONTROLS.COM TO DOWNLOAD CAD DRAWINGS

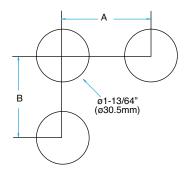


LEGEND PLATES



Note: Legend plates feature a tab for optional break-away positioning and can be used in conjunction with the Thrust & Trim Washer accessory.

MOUNTING HOLE PATTERN



MOUNTING HOLE PATTERN					
A	В				
2-7/16" (70mm)	2-1/8" (54mm)				
2-11/16" (68.3mm)	2-3/8" (60.3mm)				
	_				

MOUNTING GASKETS

MOUNTING GASKETS CHART #1						
PANEL THICKNESS IN DECIMALS		SKETS NEEDED 1) & 1/16" (1.6MM)				
less than .080	1	2				
.080 – .132	1	1				
.133 – .185	0	3				
.186 – .238	0	2				
.239 – .291	0	1				
NOTE: Remove one 1/1 legend plate.	6" (1.6mm) gas	ket when using a				

MOUNTING GASKETS CHART #2 PANEL THICKNESS # OF GASKETS NEEDED			
less than .080	3/16" (4.8N/M) 7	§ 1/16" (1.6MM) 1	
.080 – .132	0	3	
.133 – .185	0	2	
.186 – .238	0	1	
NOTE: Remove one 1/1 legend plate.	6" (1.6mm) gasket	when using a	

MOUNTING GASKETS CHART #3			
PANEL THICKNESS IN DECIMALS	01 011011	ETS NEEDED & 1/16" (1.6MM)	
less than .080	1	4	
.080132	1	3	
.133 – .185	1	2	
.186 – .238	1	1	
.239 – .291	0	3	
.292 – .344	0	2	
NOTE: Remove one 1/1 legend plate.	6" (1.6mm) gaske	t when using a	