30MM INDUSTRIAL PILOT DEVICES



c3controls' 30mm Industrial Pilot Devices offer superior quality at an affordable price. These modular devices feature a rugged, all-polyester construction, are UL listed and are rated Type 4/4X as standard for watertight and corrosion resistance. c3's pilot devices are also listed for Type 1, 2, 3, 3R, 12 and 13 requirements.



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PROVEN









Conformity to Standards: PILOT DEVICES

UL 508, 1604 CSA C22.2 No. 14, 213 IEC 60947-1, 60947-5-1

MULTI-VOLTAGE PILOT LIGHTS UL 508, 1604

IEC 60947-1, 60947-5-

Certifications:

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

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

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

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

Visit www.c3controls.com to download product certifications



30MM INDUSTRIAL PILOT DEVICES

All our products are fully certified, rated, and backed by our lifetime warranty to meet the needs of the machine builder, and our 30mm Industrial Pilot Devices are no exception. Check out the incredible features in the chart below!

DELIVERING SUPERIOR PROD	UCT QUALITY AND MANUFACTURING EXCELLENCE		
√ Proven	Our 30mm industrial operators are UL Listed, CSA Certified and CE marked meeting global standards requirements.		
✓ Easy to Install	Our "snap-on" contact blocks are color coded for quick circuit identification and feature 35° angled captive terminal screws and self-lifting pressure plates for fast and easy wiring.		
√ 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.		
✓ Rugged Design	Optional polyester or polished aluminum clamp rings with coarse 16 pitch threads for quick and easy utilization that won't cross thread or strip.		
√ 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.		
✓ Flexible	Our contact blocks can be stacked 4 deep and up to 2 across for a total of 8 circuits, providing the flexibility to operate multiple control circuits from a single operator.		
√ Convenient	Reduce inventory with our interchangeable modular design, providing endless options for appropriate operator interface.		
✓ 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.		
√ Lifetime Warranty*	Every product is backed by our 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



By utilizing the 30mm Multi-Voltage LED Pilot Lights from c3controls, there is no need for us to specify several devices for one job. With one product, we can meet every one of our needs.

Scott Grinwis, Inside Sales • Kent Industries





Momentary Push Button



Emergency Stop



Pilot Light



Selector Switch



UNIQUE PRODUCT LINE FEATURES

METAL ON THE INSIDI



c3controls 30mm Emergency Stop devices contain a solid brass detent mechanism ensuring reliable operation in emergency stop applications, and providing safe interruption of circuits and longer life.

EXCLUSIVE MULTI-VOLTAGE LIGHT



c3controls state-of-the-art multi-voltage light modules—the only U.S. manufactured multi-voltage 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.

INTERNAL SELF-LUBRICANT



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

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.

RUBBER BOOTS



Our state-of-the-art rubber boots are available in both Neoprene and Fluorosilicone, and protect the operators and the circuits behind them from harsh chemicals and climates.

FIND IT FAST

30mm Industrial Pilot Devices



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

www.c3controls.com



SELECT YOUR CONTACT BLOCK

MODULAR CONTACT BLOCK CONFIGURATION				
CODE	DESCRIPTION	CONTACT SYMBOL	COLOR	LIST
	SILVER CONT	ACTS		
CBNO	Normally Open Contact Block		Green/Clear	\$13.00
CBNO-IP20	Normally Open Contact Block with IP20 Guarded Terminals	0 0	Green/Clear	\$17.00
CBNC	Normally Closed Contact Block		Red/Clear	\$13.00
CBNC-IP20	Normally Closed Contact Block with IP20 Guarded Terminals	0.1.0	Red/Clear	\$17.00
CBEM	Early Make Contact Block	1	White/Clear	\$17.00
CBEM-IP20	Early Make Contact Block with IP20 Guarded Terminals	0 0	White/Clear	\$21.00
CBDB	Delayed Break Contact Block		Black/Clear	\$17.00
CBDB-IP20	Delayed Break Contact Block with IP20 Guarded Terminals	2 2	Black/Clear	\$21.00
	GOLD PLATED CO	INTACTS		
CBNOG	Normally Open Contact Block		Green/Amber	\$22.00
CBNOG-IP20	Normally Open Contact Block with IP20 Guarded Terminals	0 0	Green/Amber	\$26.00
CBNCG	Normally Closed Contact Block		Red/Amber	\$22.00
CBNCG-IP20	Normally Closed Contact Block with IP20 Guarded Terminals	0 1 0	Red/Amber	\$26.00
CBEMG	Early Make Contact Block	1	White/Amber	\$26.00
CBEMG-IP20	Early Make Contact Block with IP20 Guarded Terminals	0 0	White/Amber	\$30.00
CBDBG	Delayed Break Contact Block		Black/Amber	\$26.00
CBDBG-IP20	Delayed Break Contact Block with IP20 Guarded Terminals		Black/Amber	\$30.00

STANDARD RATING DESIGNATIONS
AGOO RATING DESIGNATION
A600 (7,200 VA Make and 720 VA Break),
600V AC Maximum
Maximum Continuous Thermal Current, Ith: 10A
P300 RATING DESIGNATION
P300 (138 VA Make and 138 VA Break),
250V DC Maximum
Maximum Continuous Thermal Current, Ith: 5A



Our Contact Blocks save you time and money by offering the flexibility to operate multiple control circuits from a single pilot device. Most operators can be stacked 4 deep and up to 2 across, providing a total of 8 circuits per operator in any combination. Compared to others, our quick install snap-on feature makes installing multiple blocks a "snap" - they install in less time than it takes to pick up a screwdriver! And our heavy-duty construction ensures that these contact blocks stay connected.

Tired of wiring contact blocks in cramped spaces?

Our unique 35 degree angled terminals provide ease of wiring for quick installation. In fact, you can wire the contact blocks outside the tight space of the control panel, then simply "snap-on" to the operator. All terminal screws have self-lifting captive wire clamps to speed wiring.

> Enhanced safety with field installable IP20 terminal **guards** are transparent to maintain terminal visibility. Their construction provides easy access to the device terminals - making wiring fast and convenient, and they snap securely in place without the use of tools. NOTE: IP20 terminal guards must be installed before wiring.

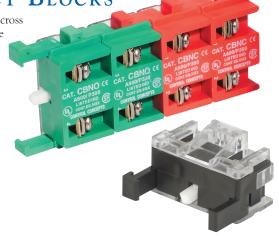
For convenient terminal marking our IP20 terminal guards utilize Series WTB2 markers (see page 461), simplifying wiring and troubleshooting.



30mm Standard Contact Blocks

Our standard contact blocks are stackable 4 deep and up to 2 across on most operators for a total of 8 circuits per operator. They are color coded for instant circuit identification to minimize wiring errors and to expedite the wiring process. You can combine contact block types to achieve your desired function.

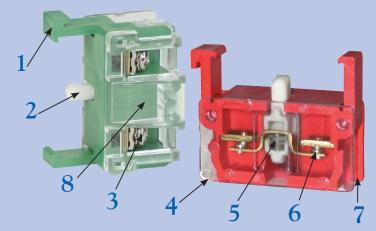
Also refer to pages 241-242 for our complete selection of Hermetically Sealed and Factory Sealed Contact Blocks in our 30mm H-Line section.

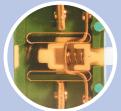




UNIQUE PRODUCT FEATURES

c3controls manufactures the most innovative, user-friendly line of Contact Blocks on the market today!





NOTE: Gold plated contacts are available on standard blocks for dry circuit applications. The cover will be gold (amber) in place of clear.

- 1. Vibration resistant snap-on assembly simplifies installation.
- Self-lubricating thermoplastic stroker prevents sticking and corrosive build-up that is often associated with other competitor products.
- **3.** 35 degree angle plated steel terminal screws with captive pressure plates facilitate wiring and protect against corrosion.
- **4.** Clear V0 plastic covers resist combustion and aid in visual confirmation of circuit configuration.
- **5.** Stainless steel spring for protection in corrosive environments.
- Built-in self-wiping cleaning action and high point contact pressure for low-level switching. Silver contact rivets provide long life in normal control circuits.
- Color-coded body for quick circuit identification (green = NO, red = NC, white = EM, black = DB).
- 8. Optional IP20 terminal guards protect against accidental contact with live parts. Can be ordered separately as an accessory or factory assembled providing the convenience of a single catalog number.

AVAILABLE CONTACT BLOCKS FOR ORDINARY LOCATIONS













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 PBO + II + III + IV + V + VI + VII or PBO-FCGN-NO-IP20



I. OPERATOR TYPE			
CODE	DESCRIPTION	LIST	
PB0	Push Button Operator	\$18.00	

II. CLAIVIP 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**		

cap types. **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.

*NOTE: Aluminum clamp rings are NOT an option for SMC or SJC

III. CAP TYPE			
CODE	DESCRIPTION	LIST	
(Blank)	Operator less	_	
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	
RB	Neoprene Rubber Boot‡	\$32.00	
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 COLOR
CODE	COLOR
ALL CA	AP TYPES (EXCLUDES RUBBER BOOTS)
(Blank)	Operator less Cap
ВК	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)			
CODE	DESCRIPTION	LIST	
(Blank)	Operator without Contact Blocks		
NO	1 Normally Open Contact Block	\$13.00	
NC	1 Normally Closed Contact Block	\$13.00	
EM	1 Early Make Contact Block	\$17.00	
DB	1 Delayed Break Contact Block	\$17.00	
NO-NO	2 Normally Open Contact Blocks	\$26.00	
NC-NC	2 Normally Closed Contact Blocks	\$26.00	
NO-NC	1 Normally Open and 1 Normally Closed Contact Blocks	\$26.00	

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

VII. OPTIONS			
CODE	DESCRIPTION	LIST/PC*	
(Blank)	None	_	
IP20	IP20 Guard	\$ 4.00	
	When choosing the IP20 op	•	

achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.



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



Guarded Flush Cap

















Flush Cap

Extended Cap

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

Jumbo Mushroom Cap

Shrouded Mushroom Cap

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

Rubber Boot



30mm Momentary Non-Illuminated Push Buttons

c3controls goes the extra step to make sure that our products outlast the competition. Our 30mm Momentary Non-Illuminated Push Buttons are durable and flexible for a variety of uses. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Polyester or polished aluminum clamp rings with coarse 16 pitch threads.
- Available in both Neoprene and Fluorosilicone, our state-of-the-art rubber boots protect the operators and the circuits behind them from harsh chemicals and climates.
- #6 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 with a variety of interchangeable cap types and colors which ultimately will save you time and money by reducing your inventory.

SOME OF OUR POPULAR CONFIGURATIONS:

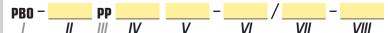


MOMENTARY NON-ILLUMINATED PUSH BUTTON OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)				
	FLUSH CAP		EXTENDED CAP	
CAP COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST
Black	PBO-FCBK-NO	\$36.20	PBO-XCBK-NO	\$36.20
Green	PBO-FCGN-NO	\$36.20	PBO-XCGN-NO	\$36.20
Red	PBO-FCRD-NO	\$36.20	PBO-XCRD-NO	\$36.20
Black	PBO-FCBK-NC	\$36.20	PBO-XCBK-NC	\$36.20
Green	PBO-FCGN-NC	\$36.20	PBO-XCGN-NC	\$36.20
Red	PBO-FCRD-NC	\$36.20	PBO-XCRD-NC	\$36.20
Black	PBO-FCBK-NO/NC	\$49.20	PBO-XCBK-NO/NC	\$49.20
Green	PBO-FCGN-NO/NC	\$49.20	PBO-XCGN-NO/NC	\$49.20
Red	PBO-FCRD-NO/NC	\$49.20	PBO-XCRD-NO/NC	\$49.20
	CAP COLOR Black Green Red Black Green Red Black Green Red Black Green	FLUSH CAP FLUSH CAP CAP COLOR CATALOG NUMBER Black PBO-FCBK-NO Green PBO-FCGN-NO Black PBO-FCBK-NC Green PBO-FCBK-NC Green PBO-FCBN-NC Red PBO-FCBN-NC Red PBO-FCBK-NO/NC Green PBO-FCBK-NO/NC	### FLUSH CAP FLUSH CAP	FLUSH 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-Pull



Example: To build one of our most popular Push Buttons, the part number would be PBO + II + PP + IV + V + VI + VII + VIII or PBO-PPMCGN-NO



I. OPERATOR TYPE		
CODE	DESCRIPTION	LIST
PB0	Push Button Operator	\$18.00

II. CLAMP RING						
CODE	DESCRIPTION	LIST				
(Blank)	Black Polyester (Type 4X)					
Υ	Yellow Polyester (Type 4X)	\$ 4.30				
Α	Aluminum (Type 4)	\$ 4.30				

	III. CAP FUNCTION	V
CODE	DESCRIPTION	LIST
PP	Push-Pull Maintained	\$57.00

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".

O = OPEN X = CLOSED

	MAINTAINED IN/MAINTAINED OUT								
	1 CIRCUI	T (1 NC)	2	CIRCUIT	(1 NO/1 NC)		2 CIRCUIT (2 NC)		
	T								
	OUT	IN		OUT	IN		OUT	IN	
NC	Х	0	NC	Χ	0	NC	Χ	0	
			N0	0	Χ	NC	Χ	0	

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

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

DISCOUNT SCHEDULE

VI. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$13.00
NC	1 Normally Closed Contact Block	\$13.00
EM	1 Early Make Contact Block	\$17.00
DB	1 Delayed Break Contact Block	\$17.00
NO-NO	2 Normally Open Contact Blocks	\$26.00
NC-NC	2 Normally Closed Contact Blocks	\$26.00
NO-NC	1 Normally Open and 1 Normally Closed Contact Blocks	\$26.00
	Ologod Oolitaat Diocks	

VII. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART VI FROM ABOVE)

	VIII. OPTIONS	
CODE	DESCRIPTION	LIST/PC*
(Blank)	None	_
IP20	IP20 Guard	\$ 4.00

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.

contact with live parts. See page 227.



MIX AND MATCH ANY COLOR AND PUSH-PULL MAINTAINED NON-ILLUMINATED CAP





30mm Maintained Non-Illuminated Push Buttons

THE MOST RUGGED EMERGENCY STOP AVAILABLE IN THE INDUSTRY!

All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Polyester or polished aluminum clamp rings with coarse 16 pitch threads that easily thread on and won't cross thread or strip.
- All cap types are secured by the clamp ring once installed for tamper protection, unlike snap-on/snap-out caps used by others.
- #6 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

We Put The Metal On The Inside — Where It Counts! c3controls Emergency Stops contain a solid brass detent mechanism and 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. A stainless steel version is also available for corrosive environments (see pages 245-246).

Some of Our Popular Configurations:

	2-POSITION PUSH-PULL MAINTAINED NON-ILLUMINATED OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)						
	1 CIRCUIT (1 NC) 2 CIRCUIT (1 NO/1 NC) 2 CIRCUIT (2 NC)						
COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	
Black	PBO-PPMCBK-NC	\$ 88.00	PBO-PPMCBK-NO/NC	\$101.00	PBO-PPMCBK-NC/NC	\$101.00	
Green	PBO-PPMCGN-NC	\$ 88.00	PBO-PPMCGN-NO/NC	\$101.00	PBO-PPMCGN-NC/NC	\$101.00	
Red	PBO-PPMCRD-NC	\$ 88.00	PBO-PPMCRD-NO/NC	\$101.00	PBO-PPMCRD-NC/NC	\$101.00	
Yellow	PBO-PPMCYW-NC	\$ 88.00	PBO-PPMCYW-NO/NC	\$101.00	PBO-PPMCYW-NC/NC	\$101.00	



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.

Maintained Push Buttons (Non-Illuminated)

2-Position Push-Twist Release		
PTR - TMC V II III IV V Example: To build one of our most number would be PTR + II + TMC + I	VI VII popular Push Buttons, the part V + V + VI + VII or PTR-TMCGN-NO	
I. OPERATOR TYPE	III. CAP TYPE	V. CONTACT BLOCK C

	I. OPERATOR TYPI	
CODE	DESCRIPTION	LIST
PTR	Push-Twist Release	\$65.00

II. CLAMP RING					
CODE	DESCRIPTION	LIST			
(Blank)	Black Polyester (Type 4X)				
Υ	Yellow Polyester (Type 4X)	\$ 4.30			
A	Aluminum (Type 4)	\$ 4.30			

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.

O = OPEN X = CLOSED

	MAINTAINED IN/MAINTAINED OUT								
11	1 CIRCUIT (1 NC) 2 CIRCUIT (1 NO/1 NC) 2 CIRCUIT (2 NC)							NC)	
	Î								
	OUT	IN		OUT	IN		OUT	IN	
NC	Χ	0	NC	Х	0	NC	Х	0	
			NO	0	Χ	NC	Х	0	

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

IV. CAP COLOR
COLOR
Black
Blue
Green
Grey
Red
White
Yellow

DISCOUNT SCHEDULE E

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$13.00
NC	1 Normally Closed Contact Block	\$13.00
EM	1 Early Make Contact Block	\$17.00
DB	1 Delayed Break Contact Block	\$17.00
NO-NO	2 Normally Open Contact Blocks	\$26.00
NC-NC	2 Normally Closed Contact Blocks	\$26.00
NO-NC	1 Normally Open and 1 Normally	\$26.00
	Closed Contact Blocks	
	0.0000 00	

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

(USE CHART V FROM ABOVE)

VII. OPTIONS				
CODE	DESCRIPTION	LIST/PC*		
(Blank)	None	_		
IP20	IP20 Guard	\$ 4.00		
*NOTE: \	When choosing the IP20 o	ption, in order to		

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.

Some of Our Popular Configurations:

2-POSITION PUSH-TWIST RELEASE MAINTAINED NON-ILLUMINATED OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)

	1 CIRCUIT (1 NC)		2 CIRCUIT (1 NO/1 NC)		2 CIRCUIT (2 NC)	
COLOR	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST
Black	PTR-TMCBK-NC	\$ 95.00	PTR-TMCBK-NO/NC	\$108.00	PTR-TMCBK-NC/NC	\$108.00
Green	PTR-TMCGN-NC	\$ 95.00	PTR-TMCGN-NO/NC	\$108.00	PTR-TMCGN-NC/NC	\$108.00
Red	PTR-TMCRD-NC	\$ 95.00	PTR-TMCRD-NO/NC	\$108.00	PTR-TMCRD-NC/NC	\$108.00
Yellow	PTR-TMCYW-NC	\$ 95.00	PTR-TMCYW-NO/NC	\$108.00	PTR-TMCYW-NC/NC	\$108.00

Available Cap Colors for 2-Position and 3-Position Maintained Non-Illuminated Push Buttons

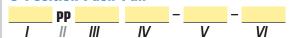




IT'S EASY TO BUILD YOUR OWN PUSH BUTTON

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

Maintained Push Buttons (Non-Illuminated) 3-Position Push-Pull



Example: To build one of our most popular Push Buttons, the part number would be I + PP + III + IV + V + VI or PPMIRD-NC-DB

	I. CLAMP RING	
CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
Υ	Yellow Polyester (Type 4X)	\$ 4.30
Α	Aluminum (Type 4)	\$ 4.30

II. OPERATOR TYPE				
CODE	DESCRIPTION	LIST		
PP	Push-Pull Maintained	\$58.00		

11	III. OPERATOR FUNCTION		
CODE	DESCRIPTION		
MI	Momentary Out, Maintained Center, Maintained In		
AC	Momentary Out, Maintained Center, Momentary In		

O = OPEN X = CLOSED

	MOMENTARY OUT, MAINTAINED CENTER, <u>MAINTAINED</u> IN			MOMENTARY OUT, MAINTAINED CENTER, <u>MOMENTARY</u> IN			
	OUT	CENTER	IN		OUT	CENTER	IN
NC	Х	0	0	NC	Х	0	0
DB	Χ	Х	0	DB	Х	Χ	0
N0	0	0	Х	NO	0	0	Х
NC	Χ	0	0	NC	Х	0	0

IV. MUSHROOM CAP/COLOR		
CODE	COLOR	LIST
ВК	Black	\$17.00
BE	Blue	\$17.00
GN	Green	\$17.00
GY	Grey	\$17.00
RD	Red	\$17.00
WE	White	\$17.00
YW	Yellow	\$17.00

v. coi	NTACT BLOCK CONFIGURAT	TION *
CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NC-DB	1 Normally Closed and	\$30.00
	1 Delayed Break Contact Blocks	
NO-NC	1 Normally Open and	\$26.00
	1 Normally Closed Contact Blocks	
*NOTE: C	ontact blocks mount on one side only.	



CODE	DESCRIPTION	LIST/PC*	
(Blank)	None	_	
IP20	IP20 Guard	\$ 4.00	
	When choosing the IP20 option		
achieve IP20 protection a terminal guard must be			
assembled on each contact block configuration			

increasing the List price \$4.00 for each guard.

VI. OPTIONS

The 3-Position Push-Pull device is available in two basic styles. One version features the "out" position as momentary, the "center" position as maintained, and the "in" position as maintained. The other version features the "center" position as maintained while the "out" and "in" positions are momentary.



SOME OF OUR POPULAR CONFIGURATIONS:

3-POSITION PUSH-PULL MAINTAINED NON-ILLUMINATED OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X) MOMENTARY OUT, MAINTAINED CENTER, MOMENTARY OUT, MAINTAINED CENTER MAINTAINED IN MOMENTARY IN COLOR CATALOG NUMBER CATALOG NUMBER LIST LIST PPMIBK-NC-DB \$105.00 PPACBK-NC-DB \$105.00 Black PPMIGN-NC-DB \$105.00 PPACGN-NC-DB \$105.00 Green PPMIRD-NC-DB PPACRD-NC-DB \$105.00 Red \$105.00 PPMIYW-NC-DB PPACYW-NC-DB \$105.00 \$105.00

SEE BOTTOM OF PAGE 205 FOR CAP COLOR OPTIONS.





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 + VIII or FVLUI20-IPBCGN-NO-IP20

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

I. ILLUMINATED PUSH BUTTON OPERATOR		
CODE	DESCRIPTION	LIST

CODE	DESCRIPTION	LIST
FVLU	Full Voltage	\$46.00
TFLU	Transformer (50/60 Hz)	\$68.00
RLU	Resistor	\$57.00
RTLU	Dual Input Remote Test	\$62.00

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
	TRANSFORMER
120	120V AC
240	240V AC
277	277V AC
480	480V AC
	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

SEE PAGE 228 FOR LAMP REPLACEMENT CHART AND PAGE 229 FOR LAMP TECHNICAL DATA.

	III. LAMP TYPE/COLOR		
CODE	COLOR	LIST	
	LED		
IΛ	Amhar	¢18 N	

.W	White	\$18.00
.R	Red	\$18.00
.G	Green	\$18.00
.В	Blue	\$18.00
A	Amber	\$18.00

INCANDESCENT Clear[‡]

Dialik)	Glear .	_	_	
	[‡] NOTE: Incandescent bulbs			
	are not an option for RLU480.			
:	Clear Flashing Bulb*	\$	7.10	
	*NOTE: Incandescent flashing			
	bulbs available for any 6V full			
	voltage or transformer application	on.		

	NEON†	
NG	Green	_
NR	Red	_
	†NOTE: Only Available in FVLU1: RLU240 and RLU480.	20,

No Lamp

IV. CLAMP RING

-\$ 1.80

CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
(Blank) A	Aluminum (Type 4)	\$ 4.30

V. LENS TYPE

CODE	DESCRIPTION	LIST
IPBC	Illuminated Push Button Lens	\$24.00
IPBCM	CM Illuminated Push Button Mushroom Lens	
GIPBC	PBC Guarded Illuminated Push Button Lens*	
SIPBCM	BCM Shrouded Illuminated Push Button Mushroom Lens*	

*NOTE: Aluminum clamp rings are not an option for

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

VII. CONTACT BLOCK CONFIGURATION*

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$13.00
NC	1 Normally Closed Contact Block	\$13.00
EM	1 Early Make Contact Block	\$17.00
DB	1 Delayed Break Contact Block	\$17.00
N0-N0	2 Normally Open Contact Blocks	\$26.00
NC-NC	2 Normally Closed Contact Blocks	\$26.00
NO-NC	1 Normally Open and 1 Normally Closed Contact Blocks	\$26.00

*NOTE: Contact blocks mount on one side only

VIII. OPTIONS

CODE	DESCRIPTION	LIST/PC*
(Blank) IP20	None	_
IP20	IP20 Guard	\$ 4.00

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on the light module and each contact block configuration, increasing the List price \$4.00 for each guard.

IP20 terminal guards are not available for RTLU.

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.)



30mm Momentary Illuminated Push Buttons

c3controls goes the extra step to make sure that our products outlast the competition. Our 30mm Momentary Illuminated Push Buttons are durable and flexible for a variety of uses. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Polyester or polished aluminum clamp rings.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps to provide reliable lamp secureness.
- Available with Incandescent, Neon, or our LED lamps with leakage protection.
- #6 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.
- Our rugged Lexan[™] caps can resist high impact for reliable performance in most environments even in high ambient temperatures.

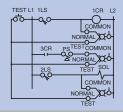
Some of Our Popular Configurations:

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 FVLU120-IPBCAR-NO-NC \$ 96.00 FVLU120-IPBCMAR-NO-NC \$108.00 Voltage Green FVLU120-IPBCGN-NO \$ 83.00 FVLU120-IPBCMGN-NO \$ 95.00 Red FVLU120-IPBCRD-NC \$ 83.00 FVLU120-IPBCMRD-NC \$ 95.00 Trans-TFLU120-IPBCMAR-NO-NC Amber TFLU120-IPBCAR-NO-NC \$118.00 \$130.00 Green TFLU120-IPBCGN-NO \$105.00 TFLU120-IPBCMGN-NO \$117.00 TFLU120-IPBCRD-NC Red \$105.00 TFLU120-IPBCMRD-NC \$117.00 Resistor Amber RLU120-IPBCAR-NO-NC RLU120-IPBCMAR-NO-NC \$107.00 \$119.00 Green RLU120-IPBCGN-NO \$ 94.00 RLU120-IPBCMGN-NO \$106.00 RLU120-IPBCRD-NC \$ 94.00 RLU120-IPBCMRD-NC \$106.00 LED Amber TFLU120LA-IPBCAR-NO-NC \$136.00 TFLU120LA-IPBCMAR-NO-NC \$148.00 Green FVLU120LG-IPBCGN-NO FVLU120LG-IPBCMGN-NO \$101.00 \$113.00 Red FVLU120LR-IPBCRD-NC \$101.00 FVLU120LR-IPBCMRD-NC \$113.00

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.

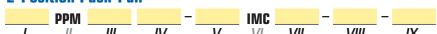
The schematic shown represents a typical dual input application.





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

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 + IX or FVPPM120-IMCGN-NO



I. ILLUMINATED PUSH BUTTON OPERATOR

CODE	DESCRIPTION	LIST		
FV	Full Voltage —			
TF	Transformer (50/60 Hz)	\$26.00		
RL Resistor		_		

II. OPERATO	ID TVDE
II. UPLNAIU	n IIIEE

CODE	DESCRIPTION	LIST
PPM	Push-Pull Maintained	\$79.00

III. VOLTAGE BASED ON

OPERAIOR ITPE				
CODE	DESCRIPTION			
	FULL VOLTAGE			
6	6V AC/DC			
12	12V AC/DC			
24	24V AC/DC			
120	120V AC/DC			
	TRANSFORMER			
120	120V AC			
240	240V AC			
277	277V AC			
480	480V AC			
	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

CODE	COLOR LIST						
LED							
LA	Amber \$18.0						
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 RLPPM480.						
F	Clear Flashing Bulb* \$ 7.10 *NOTE: Incandescent flashing bulbs available for any 6V full voltage or transformer application.						
	NEON†						
NG	Green						
NR	Red —						
	†NOTE: Only Available in FVPPM120, RLPPM240 and RLPPM480.						
NL	No Lamp	-\$ 1.80					

V. CLAMP RING

CODE DESCRIPTION	
(Blank) Black Polyester (Type 4X)	
Aluminum (Type 4)	\$ 4.30
	Black Polyester (Type 4X)

SEE PAGE 228 FOR LAMP REPLACEMENT CHART AND PAGE 229 FOR LAMP TECHNICAL DATA.

SEE PAGE 210 FOR CIRCUIT DIAGRAM CHART.

	VI. LENS TYPE				
Г	CODE	LIST			
	IMC	Illuminated Mushroom Lens	\$36.00		
ш.					

	VII. LENS COLOR
CODE	COLOR

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

VIII. CONTACT BLOCK CONFIGURATION*

CODE	CODE DESCRIPTION					
(Blank)	Operator without Contact Blocks	_				
NO	NO 1 Normally Open Contact Block					
NC	1 Normally Closed Contact Block	\$13.00				
EM	EM 1 Early Make Contact Block S DB 1 Delayed Break Contact Block S					
DB						
NO-NO	2 Normally Open Contact Blocks	\$26.00				
NC-NC	2 Normally Closed Contact Blocks	\$26.00				
NO-NC	NO-NC 1 Normally Open and 1 Normally \$2					
	Closed Contact Blocks					
*NOTE: Contact blocks mount on one side only.						

IX. OPTIONS

CODE	DESCRIPTION	LIST/PC*		
(Blank)	None	_		
IP20	IP20 Guard	\$ 4.00		

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.

Available Lens Colors for 2-Position and 3-Position Maintained Illuminated Push Buttons













– (1-1/2" (38mm) dia.) *–*



30mm Maintained Illuminated Push Buttons

c3controls goes the extra step to make sure that our products outlast the competition. Our 30mm Maintained Illuminated Push Buttons are durable and flexible for a variety of uses. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Polyester or polished aluminum clamp rings with coarse 16 pitch threads that easily thread on and won't cross thread or strip.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps to provide reliable lamp secureness.
- Available with Incandescent, Neon or our LED lamps with leakage protection.
- #6 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



- 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™ caps can resist high impact for reliable performance in most environments even in high ambient temperatures.

2-Position Push-Pull Maintained Illuminated Operators Circuit Diagram Chart

O = OPEN X = CLOSED

MAINTAINED IN/MAINTAINED OUT								
1 CIRCUIT (1 NC)		2 CIF	CUIT (1 N	IO/1 NC)	2 CIRCUIT (2 NC)			
Î					Î			
	OUT	IN		OUT	IN		OUT	IN
NC	Χ	0	NC	Χ	0	NC	Χ	0
			NO	0	Х	NC	Х	0

3-Position Push-Pull Maintained Illuminated Operators Circuit Diagram Chart

O = OPEN X = CLOSED

	MOMENTARY OUT, MAINTAINED CENTER, <u>Maintained</u> in					Y OUT, MAII MOMENTAI	
	OUT	CENTER	IN		OUT	CENTER	IN
NC	Х	0	0	NC	Х	0	0
DB	Х	Х	0	DB	Х	Х	0
N0	0	0	Х	NO	0	0	Х
NC	Χ	0	0	NC	Х	0	0

Some of Our Popular Configurations:

	2-POSITION PUSH-PULL MAINTAINED ILLUMINATED OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)					
	1 CIRCUIT (1 NC)		2 CIRCUIT (1 NO/1 NC)		2 CIRCUIT (2 NC)	
TYPE	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST
Transformer	TFPPM120-IMCRD-NC	\$154.00	TFPPM120-IMCRD-NO-NC	\$167.00	TFPPM120-IMCRD-NC-NC	\$167.00
Full Voltage	FVPPM120-IMCRD-NC	\$128.00	FVPPM120-IMCRD-NO-NC	\$141.00	FVPPM120-IMCRD-NC-NC	\$141.00
Resistor	RLPPM120-IMCRD-NC	\$128.00	RLPPM120-IMCRD-NO-NC	\$141.00	RLPPM120-IMCRD-NC-NC	\$141.00



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.

Maintained 3-Position Push-Pull Push Buttons (Illuminated)

I II III IV V VI VII VIII IX

Example: To build one of our most popular Push Buttons, the part number would be I + II + III + IV + V + IMC + VII + VIII + IX or FVMI120-IMCRD-NC-DB



I. ILLUMINATED PUSH BUTTON

	UPERATUR	
CODE	DESCRIPTION	LIST
FV	Full Voltage	_
TF	Transformer (50/60 Hz)	\$ 26.00
RL	Resistor	

II. OPERATOR FUNCTION

CODE	DESCRIPTION	LIST
MI	Momentary Out, Maintained Center, Maintained In	\$ 79.00
AC	Momentary Out, Maintained Center, Momentary In	\$ 79.00

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		
	TRANSFORMER		
120	120V AC		
240	240V AC		
277	277V AC		
480	480V AC		
	RESISTOR		
120	120V AC/DC		
240	240V AC/DC		
480	480V AC/DC (LED & Neon only)		

The 3-Position Push-Pull device is available in two basic styles. One version features the "out" position as momentary, the "center" as maintained, and the "in" position as maintained. The other version features the "center" position as maintained while the "out" and "in" positions are momentary.

IV. 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 RL480.	_		
F	Clear Flashing Bulb* *NOTE: Incandescent flashing bulbs available for any 6V full voltage or transformer applica	\$ 7.10 ation.		
	NEON†			
NG Green — NR Red —				
NL	No Lamp	-\$ 1.80		

V. CLAMP RING

CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
A	Aluminum (Type 4)	\$ 4.30

VI. LENS TYPE

CODE	DESCRIPTION	LIST
IMC	Illuminated Mushroom Lens	\$ 36.00

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

VIII. CONTACT BLOCK CONFIGURATION*

CODE	DESCRIPTION	LIST	
(Blank)	Operator without Contact Blocks	_	
NC-DB	1 Normally Closed and 1 Delayed Break Contact Blocks	\$ 30.00	
NO-NC	\$ 26.00		
*NOTE: Contact blocks mount on one side only.			

IX. OPTIONS

CODE	DESCRIPTION	LIST/PC*
(Blank)	None	_
IP20	IP20 Guard	\$ 4.00

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.

SEE PAGE 228 FOR LAMP REPLACEMENT CHART AND PAGE 229 FOR LAMP TECHNICAL DATA.

SEE PAGE 210 FOR CIRCUIT DIAGRAM CHART.

FVAC120-IMCRD-NC-DB

RLAC120-IMCRD-NC-DB



\$147.00

\$147.00

Some of Our Popular Configurations:

SEE BOTTOM OF PAGE 209 FOR LENS COLOR OPTIONS.

	3-POSITION PUSH-PULL MAINTAINED OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)			
_	MOMENTARY OUT, MAINTAINED CENTER, MAINTAINED IN		MOMENTARY OUT, MAINTAINED CENTER, MOMENTARY IN	
TYPE	CATALOG NUMBER	LIST	CATALOG NUMBER	LIST
Transformer	TFMI120-IMCRD-NC-DB	\$173.00	TFAC120-IMCRD-NC-DB	\$173.00

FVMI120-IMCRD-NC-DB \$147.00

RLMI120-IMCRD-NC-DB \$147.00

Full Voltage

Resistor



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	\$19.00	
RPB-B	RPB with Bolts (1/4-20 x 1-3/4" & 3")	\$22.00	
RPB-W	RPB with Washers	\$22.00	
RPB-BW	RPB with Bolt & Washer Set	\$24.00	
RPB BOLTS	2 Bolts (1/4-20 x 1-3/4" & 3")	\$ 2.00	
RPB WASHERS	Washer Set	\$ 2.00	
Special bolt lengths available — consult factory (not available for guaranteed same day shipping).			

<u>LTERNATE ACTION BLO</u>

Our snap-on Alternate Action Block mounts in position of a standard contact block to provide alternate "push-on/push-off" contact action. It may be used with any momentary push button or momentary illuminated push button operator. NOTE: Action Block comes standard using an Early-Make contact block.

CODE	DESCRIPTION	LIST
AABEM	Alternate Action Block	\$39.00

Wobble Stic

Designed primarily for use with pendant stations, the wobble stick may be mounted in oil tight or watertight stations. The unit has spring return action to center and may be operated from any angle. It is rated Type 4/4X as standard. NOTE: Our Wobble Stick is a linear device similar to a push button. It is not a joystick or directional.



Our unique low-energy cable pull operators are available in four styles and are UL Listed for Type 1, 2, 3, 3R, 4/4X, 12 and 13 requirements. Our cable pull operators are reverse spring biased to hold contact blocks in the operated position until a force (varies by operator) is applied to the included eyebolt. Contact operation is opposite of normal (i.e., CBNO is held closed and opens only when the eyebolt is pulled). Units are available with or without contact blocks and can be supplied in Type 4X surface mounting enclosures as a custom order (not available for guaranteed same day shipping). See pages 406421 for a complete selection of our control stations.

MOMENTARY CABLE PULL OPERATOR Constructed to withstand corrosive environments It holds contact blocks in the operated position until a

4 - 6 pound force is applied to the included eyebolt.*

CODE	DESCRIPTION	LIST
WITH BLA	CK POLYESTER (TYPE 4X) CLA	MP RING
СРО	Operator Only	\$108.00
CPO-NO	with CBNO held closed	\$123.00
CPO-NC	with CBNC held open	\$123.00
WITH I	ALUMINUM (TYPE 4) CLAMP	RING
ACP0	Operator Only	\$113.00
ACPO-NO	with CBNO held closed	\$128.00
ACPO-NC	with CBNC held open	\$128.00

BOOTED MOMENTARY CABLE PULL **OPERATOR**

Provides protection in the most severe environments, such as when sleet, freeze and thaw conditions are prevalent. It holds contact blocks in the operated position until a 4 - 6 pound force is applied to the included eyebolt.*



HEAVY-DUTY MOMENTARY CABLE PULL OPERATOR

Constructed of solid brass to provide the most reliable operation. It holds contact blocks in the operated position

until a 13 pound force is applied to the included eyebolt.*

CODE	DESCRIPTION	LIST
WITH BLACK	POLYESTER (TYPE 4X) CLAI	MP RING
HDCP0	Operator Only	\$123.00
HDCPO-NO	with CBNO held closed	\$137.00
HDCPO-NC	with CBNC held open	\$137.00
WITH AL	UMINUM (TYPE 4) CLAMP	RING
AHDCP0	Operator Only	\$127.00
AHDCPO-NO	with CBNO held closed	\$142.00
AHDCPO-NC	with CBNC held open	\$142.00

PUSH-PULL MAINTAINED CABLE PULL **OPERATOR**

Operating head is provided with a latch detent mechanism to hold the operator in the pulled or "out" position when operated. It holds contact blocks in the operated position until a 4 - 6 pound force is applied to the included eyebolt. Requires a manual reset after actuation. Also available in solid stainless steel as a custom order (not available for guaranteed same day shipping)-consult the factory.*

CODE	DESCRIPTION	LIST	
WITH BLACK	POLYESTER (TYPE 4X) CLAN	/IP RING	
PPCP0	Operator Only	\$123.00	
PPCPO-NO	with CBNO held closed	\$137.00	
PPCPO-NC	with CBNC held open	\$137.00	
WITH ALUMINUM (TYPE 4) CLAMP RING			
APPCP0	Operator Only	\$127.00	
APPCPO-NO	with CBNO held closed	\$142.00	
APPCPO-NC	with CBNC held open	\$142.00	

*NOTE: The c3controls Cable Pull Switch is a "pull operated" switch designed to be operated by pulling on a rope or cable. It is not designed to the Machine Directives for Emergency Devices for Safeguarding Machinery. It does not offer direct drive, positive break/positive transfer contacts. It is a spring operated momentary device that operates "slow make/slow break" normally open and normally closed contact blocks. Pulling the eyebolt collapses an internal spring, which allows contact blocks mounted on the rear of the operator to open or close and actuate the intended circuit. Releasing the eyebolt allows the internal spring to return and depress the contact blocks to their original state. The device is designed to provide in excess of 1 million mechanical operations and is frequently applied in overhead door applications.





IT'S EASY TO BUILD YOUR OWN POTENTIOMETER

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

Potentiometer Operators



Example: To build one of our most popular

Potentiometer Operators, the part number would be

POTO + II + III + IV or POTO5K-TBW

I. OPERATOR TYPE			
CODE	DESCRIPTION	LIST	
РОТО	Potentiometer Operator	\$58.00	

II. CLAMP RING			
CODE	DESCRIPTION	LIST	
(Blank)	Black Polyester (Type 4X)	_	
A	Aluminum (Type 4)	\$ 4.30	

III. RESISTANCE			
CODE	DESCRIPTION	LIST	
(Blank)	Operator only	_	
1k	1k Potentiometer	\$22.00	
2.5k	2.5k Potentiometer	\$22.00	
5k	5k Potentiometer	\$22.00	
10k	10k Potentiometer	\$22.00	
Special order values available—consult factory (not available for guaranteed same day shipping).			



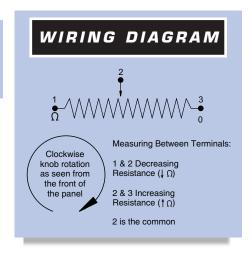
Terminal block kit may be ordered separately (part number TBK, List \$9.60) or installed and wired at the factory to the potentiometer operator.

and wired





LEGEND PLATES FOR POTENTIOMETER OPERATORS are available for same day shipping. See pages 225-226 for complete selection.





30mm Potentiometer Operators

Our single-turn Potentiometer Operators utilize standard 2 watt potentiometers with 1/4" (6.4mm) bushing and 7/8" (22.5mm) long slotted shafts. A 5/64" allen wrench is required for installation. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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. CSA File # LR 47446-9.

Product features include:

- Polyester construction for superior corrosion resistance, moisture rejection and electrical insulation.
- · Polyester or polished aluminum clamp rings.
- Standard 2 watt potentiometer.
- #6 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.







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. 2. All frictional parts are molded with an internal self-lubricant to provide outstanding wear without troublesome greases used by others that attracts
- 3. Three point terminal block and hardware.

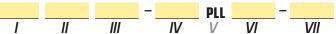
dust and other particles in the area.



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.

Pilot Lights



Example: To build one of our most popular Pilot Lights, the part number would be I + II + III + IV + PLL + VI + VII or FVLU120LG-PLLGN

I.	PILOT LIGHT OPERA	TOR
CODE	DESCRIPTION	LIST
FVLU	Full Voltage	\$46.00
TFLU	Transformer (50/60 Hz)	\$68.00
RLU	Resistor	\$57.00
RTLU	Dual Input Remote Test	\$62.00

	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
	TRANSFORMER
120	120V AC
240	240V AC
277	277V AC
480	480V AC
	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/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 RLU480.	
F	Clear Flashing Bulb* *NOTE: Incandescent flashing bulbs available for any 6V full voltage or transformer applicatio	\$ 7.10
	NEONT	
NG	Green	_
NR	Red	_
	†NOTE: Only Available in FVLU120, RLU240 and RLU480.	
NL	No Lamp -	- \$ 1.80

SEE PAGE 228 FOR LAMP REPLACEMENT CHART AND PAGE 229 FOR LAMP TECHNICAL DATA.

	IV. CLAMP RING	
CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
Δ	Aluminum (Tyne 4)	\$ 4.30

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

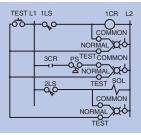
VI. LENS COLOR		
CODE	COLOR	
AR	Amber	
BE	Blue	
CR	Clear	
GN	Green	
RD	Red	
WE	White	

VII. OPTIONS		
DESCRIPTION	LIST	
None	_	
IP20 Guard	\$ 4.00	
NOTE: IP20 terminal guards are not available for RTLU.		
	DESCRIPTION None IP20 Guard	



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















30mm PILOT LIGHTS

Our 30mm 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, transformer or resistor packages for optimum durability. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps to provide reliable lamp secureness.
- Available with Incandescent, Neon, or our LED lamps with leakage protection.
- #6 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. 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.
- We utilize premium 130V incandescent and LED lamps for improved, long-lasting life.

Some of Our Popular Configurations:

PILOT LIGHTS WITH POLYESTER CLAMP RING (TYPE 4X)			
CATALOG NUMBER	DESCRIPTION	LIST	
FVLU120LG-PLLGN	Full Voltage 120V Green LED w/Green Lens	\$75.00	
FVLU120LR-PLLRD	Full Voltage 120V Red LED w/Red Lens	\$75.00	
FVLU120LA-PLLAR	Full Voltage 120V Amber LED w/Amber Lens	\$75.00	



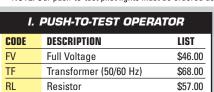
IT'S EASY TO BUILD YOUR OWN PILOT LIGHT

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 + PTT + III + IV + V + VI + VIII + VIII or FVPTT120-IPBCRD

*NOTE: Our push-to-test pilot lights must be ordered as an assembled part.



II. OPERATOR TYPE		
CODE	DESCRIPTION	LIST
PTT	Push-To-Test	\$32.00

III. VOLTAGE BASED ON OPERATOR		
CODE	DESCRIPTION	
	FULL VOLTAGE	
6	6V AC/DC	
12	12V AC/DC	
24	24V AC/DC	
120	120V AC/DC	
	TRANSFORMER	
120	120V AC	
240	240V AC	
277	277V AC	
480	480V AC	
	RESISTOR	
120	120V AC/DC	
240	240V AC/DC	
480	480V AC/DC (LED & Neon only)	

Push-To-Test Pilot Lights combine an illuminated push button with normally open and normally closed contact blocks factory wired for three-point wiring in standard push-to-test circuits.

IV. 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.	
F	Clear Flashing Bulb* *NOTE: Incandescent flashing bulbs available for any 6V full voltage or transformer applicati	\$ 7.10 on.
	NEONT	
NG	Green	
NR	Red	_
	†NOTE: Only Available in FVPTT12 RLPTT240 and RLPTT480.	20,
NL	No Lamp	- \$ 1.80

V. CLAMP RING		
CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	_
Α	Aluminum (Type 4)	\$ 4.30

SEE PAGE 228 FOR LAMP REPLACEMENT CHART AND PAGE 229 FOR LAMP TECHNICAL DATA.

	VI. LENS TYPE	
CODE	DESCRIPTION	LIST
IPBC	Illuminated Push Button Lens	\$24.00
IPBCM	Illuminated Push Button Mushroom Lens	\$36.00
GIPBC	Guarded Illuminated Push Button Lens*	\$36.00
SIPBCM	Shrouded Illuminated Push Button Mushroom Lens*	\$48.00

*NOTE: Aluminum clamp rings are not an option for GIPBC or SIPBCM.

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

VIII. OPTIONS			
CODE	DESCRIPTION	LIST	
(Blank)	None	_	
IP20	(3) IP20 Guards*	\$12.00	
*NOTE: Includes guards for light module and both contact blocks.			

DISCOUNT SCHEDULE E

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 Push-To-Test Pilot Lights

Our 30mm 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, transformer or resistor packages for optimum durability. All c3controls 30mm operators are UL Listed and are rated Type 4/4X as 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.
- Full voltage lights incorporate a unique insulated socket design to minimize accidental contact during lamp change.
- All lights use miniature bayonet base lamps to provide reliable lamp secureness.
- Available with Incandescent, Neon, or our LED lamps with leakage protection.
- #6 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.



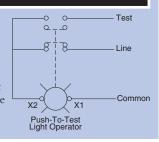
UNIQUE PRODUCT FEATURES



- 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.
- Our rugged Lexan™ lenses provide better visibility and can resist high impact for reliable performance in most environments, even in high ambient temperatures.
- We utilize premium 130V incandescent and LED lamps for improved, long-lasting life.

WIRING DIAGRAM

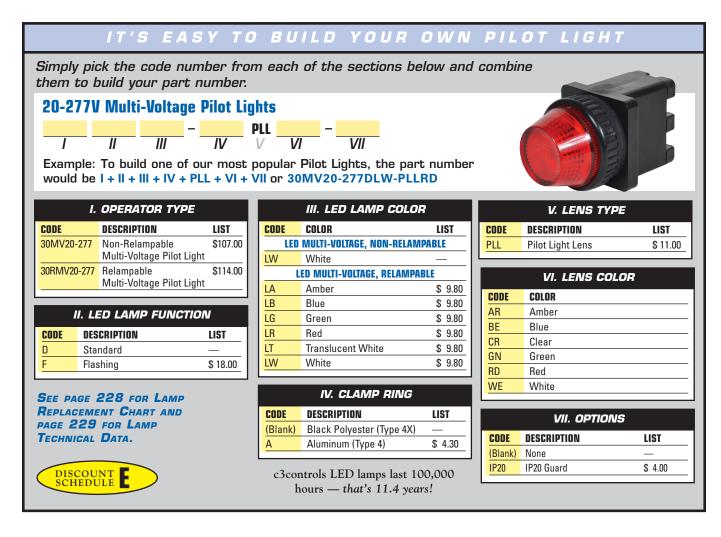
Customer connections of line and test power supplies. Light unit is powered by the line circuit. Depressing the lens cap will disconnect the line and connect the test supply, confirming bulb status.



Some of Our Popular Configurations:

ŀ	PUSH-TO-TEST PILOT LIGHTS W/POLYESTER CLAMP RING (TYPE 4X)						
l	CATALOG NUMBER	DESCRIPTION	LIST				
I	FVPTT120-IPBCAR Full Voltage 120V w/Incandescent Lamp & Amber Lens FVPTT120-IPBCGN Full Voltage 120V w/Incandescent Lamp & Green Lens						
I							
I	FVPTT120-IPBCRD Full Voltage 120V w/Incandescent Lamp & Red Lens						
ı							





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 30MV20-277DLW-PLLRD Multi-Voltage 20-277V, Non-Relampable w/ White LED and Red Lens		\$118.00			
		\$118.00			
30RMV20-277DLA-PLLAR	Multi-Voltage 20-277V, Relampable w/ Amber LED and Amber Lens	\$134.80			
30RMV20-277DLG-PLLGN Multi-Voltage 20-277V, Relampable w/ Green LED and Green Lens 30RMV20-277DLR-PLLRD Multi-Voltage 20-277V, Relampable w/ Red LED and Red Lens					

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:

- Available in non-relampable and relampable constructions.
- 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.
- Bi-polar design means functionality is independent of which lead is connected to each terminal.
- Rugged LexanTM 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 page 461), 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. We offer the same range in our flashing light as well. 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.

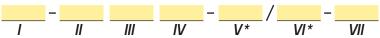




IT'S EASY TO BUILD YOUR OWN SELECTOR SWITCH

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 + VII or SSO3-SHWE-NO/NO

*NOTE: Contact block configurations are based on circuit designations (see charts below).



I. SELECTOR SWITCH OPERATOR FUNCTION

CODE	POS./FUNCTION	LIST
SS02	2/Maintained	\$23.00
SROLR	2/Spring Return, L to R	\$41.00
SRORL	2/Spring Return, R to L	\$41.00
SS03	3/Maintained	\$23.00
SROLC	3/Spring Return, L to C	\$41.00
SRORC	3/Spring Return, R to C	\$41.00
SROLRC	3/Spring Return, L & R to C	\$41.00
SS04	4/Maintained	\$23.00
SR043	4/Spring Return, Pos. 4 to 3	\$41.00
SR01243	4/Spring Return, Pos. 1 to 2 and Pos. 4 to 3	\$41.00

Ш	CL	ΔM	D.	91	11/6	9

CODE	DESCRIPTION	LIST	
(Blank)	Black Polyester (Type 4X)		
A	Aluminum (Type 4)	\$ 4.30	

III. HANDLE TYPE

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

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

IV. HANDLE INSERT COLOR

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

V. CONTACT BLOCK CONFIGURATION (LEFT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$13.00
NC	1 Normally Closed Contact Block	\$13.00
EM	1 Early Make Contact Block	\$17.00
DB	1 Delayed Break Contact Block	\$17.00
NO-NO	2 Normally Open Contact Blocks	\$26.00
NC-NC	2 Normally Closed Contact Blocks	\$26.00
NO-NC	1 Normally Open and 1 Normally	\$26.00
	Closed Contact Blocks	

VI. CONTACT BLOCK CONFIGURATION (RIGHT SIDE)

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$13.00
NC	1 Normally Closed Contact Block	\$13.00
EM	1 Early Make Contact Block	\$17.00
DB	1 Delayed Break Contact Block	\$17.00
NO-NO	2 Normally Open Contact Blocks	\$26.00
NC-NC	2 Normally Closed Contact Blocks	\$26.00
NO-NC	1 Normally Open and 1 Normally	\$26.00
	Closed Contact Blocks	

VII. OPTIONS

CODE	DESCRIPTION	LIST/PC*
(Blank)	None	_
IP20	IP20 Guard	\$ 4.00

*NOTE: When choosing the IP20 option, in order to achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.



CONTACT BLOCK SELECTION FOR 2-POSITION SELECTOR SWITCHES CIDCUIT HANDLE DOCITION DLOCK CATALOG MOUNTING

GINGUII	HWINDEE	PUSITION	DEGCK CHIMEGO	INIOONALINO				
DESIG.	LEFT	RIGHT	NUMBER	POSITION				
Α	0	Х	CBNO	EITHER				
В	Х	0	CBNC	EITHER				
			1					
CONTACT	CONTACT BLOCK SELECTION FOR 3-POSITION SELECTOR SWITCHES							
CIRCUIT HANDLE POSI			BLOCK CATAL	DG MOUNTING				
DESIG.	LEFT CE	NTER RIG	HT NUMBER	POSITION				

CONTROL DEGOK SELECTION TON 3-FUSITION SELECTION SWITCHES							
CIRCUIT	HAN	HANDLE POSITION		BLOCK CATALOG	MOUNTING		
DESIG.	LEFT	CENTER	RIGHT	NUMBER	POSITION		
C	Х	0	0	CBNO	LEFT		
D	0	Х	0	CBNC	EITHER		
E	0	0	Х	CBNO	RIGHT		
F	0	Х	Х	CBDB	LEFT		
G	Х	0	Х	CBEM	EITHER		
Н	Х	Х	0	CBDB	RIGHT		

$O = OPEN \quad X = CLOSED$

CONTACT	CONTACT BLOCK SELECTION FOR 4-POSITION SELECTOR SWITCHES											
CIRCUIT		HANDLE	POSITION	BLOCK	MOUNTING							
DESIG.	LEFT LT. CNT.		RT. CNT.	RIGHT	CAT. #	POSITION						
I	Х	0	0	0	CBNO	LEFT						
J	0	Х	0	0	CBNC	RIGHT						
K	0	0	Х	0	CBNC	LEFT						
L	0	0	0	Χ	CBNO	RIGHT						
M	0	Х	Х	Χ	CBDB	LEFT						
N	Х	0	Х	Х	CBEM	RIGHT						
0	Χ	Х	0	Χ	CBEM	LEFT						
P	Х	Х	Х	0	CBDB	RIGHT						



30mm Non-Illuminated 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. All operators feature polyester housings, are UL Listed, and are rated Type 4/4X as 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. Add-on contact blocks are available for up to 8 circuits per operator. See pages 199-200 for our complete line of 30mm standard contact blocks.

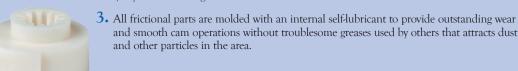
HANDLE POSITIONS											
2-POSITION	3-POSITION	4-POSITION									



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.
 - 2. 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.



Some of Our Popular Configurations:

	2-POSITION SELECTOR SWITCH OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)												
CONTACT Symbol	CONTACT BLOCK MOUNTING POS.		E POSITION X=CLOSED	TYPE OF OPERATOR	MAINTAINED Position		SPRING RETURN FROM RIGHT TO LEFT		SPRING RETURN FROM LEFT TO RIGHT				
	Viewed from front of operator	LEFT	RIGHT		CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST			
1 NO	EITHER	0	Χ	STANDARD	SS02-SHWE-N0	\$45.80	SRORL-SHWE-NO	\$63.80	SROLR-SHWE-NO	\$63.80			
0 0				LEVER	SS02-SLWE-N0	\$45.80	SRORL-SLWE-NO	\$63.80	SROLR-SLWE-NO	\$63.80			
1 NC	EITHER	Х	0	STANDARD	SS02-SHWE-NC	\$45.80	SRORL-SHWE-NC	\$63.80	SROLR-SHWE-NC	\$63.80			
مى				LEVER	SS02-SLWE-NC	\$45.80	SRORL-SLWE-NC	\$63.80	SROLR-SLWE-NC	\$63.80			

	3-POSITION SELECTOR SWITCH OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)												
	MOUNTING POS. O=OPEN X=CLOSED		IG POS. O=OPEN X=CLOSED OPERATOR POSITION				SPRING RETURN FROM RIGHT TO CENTER		SPRING RETURN FROM LEFT OR RIGHT TO CENTER				
	Viewed from front of operator	LEFT	CENTER	RIGHT		CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST
NO/NO	LEFT	Χ	0	0	STANDARD	SS03-SHWE-N0/N0	\$58.80	SROLC-SHWE-NO/NO	\$76.80	SRORC-SHWE-NO/NO	\$76.80	SROLRC-SHWE-NO/NO	\$76.80
	RIGHT	0	0	Х	LEVER	SS03-SLWE-N0/N0	\$58.80	SROLC-SLWE-NO/NO	\$76.80	SRORC-SLWE-NO/NO	\$76.80	SROLRC-SLWE-NO/NO	\$76.80

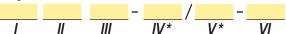
MIX AND MATCH ANY INSERT COLOR AND SELECTOR SWITCH HANDLE





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

Keyed Selector Switches



Example: To build one of our most popular Keyed Selector Switches, the part number would be I + II + III + IV + V + VI or KOSS2KA-NO

*NOTE: Contact block configurations are based on circuit designations (see page 221 for circuit designation charts).

KRC



	I. CLAMP RING	
CODE	DESCRIPTION	LIST
(Blank)	Black Polyester (Type 4X)	
A	Aluminum (Type 4)	\$ 4.30

II. KEYED SELECTOR SWITCH **OPERATOR FUNCTION**

CODE	POS./FUNCTION	AVAIL. KEY REMOVAL POSITION(S)	LIST							
KOSS2	2/Maintained	KA,KR,KL	\$101.00							
KOSRRL	2/Spring Return, R to L	KL	\$117.00							
KOSRLR	2/Spring Return, L to R	KR	\$117.00							
KOSS3	3/Maintained	KA,KR,KL,KC, KLR,KLC,KRC	\$101.00							
KOSRLC	3/Spring Return, L to C	KC,KR,KRC	\$117.00							
KOSRRC	3/Spring Return, R to C	KC,KL,KLC	\$117.00							
KOSRLRC	3/Spring Return, L&R to C	KC	\$117.00							
KOSS4	4/Maintained*	KA	\$101.00							
	*NOTE: Consult factory for special key removal positions (not available for guaranteed same day shipping).									

III. KEY REMOVAL POSITION **REMOVAL POSITION** CODE KA KR Right Only ΚL Left Only Center Only KC KLR Left & Right Only KLC Left & Center Only

IV. CONTACT BLOCK **CONFIGURATION (LEFT SIDE)**

Right & Center Only

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$ 13.00
NC	1 Normally Closed Contact Block	\$ 13.00
EM	1 Early Make Contact Block	\$ 17.00
DB	1 Delayed Break Contact Block	\$ 17.00
NO-NO	2 Normally Open Contact Blocks	\$ 26.00
NC-NC	2 Normally Closed Contact Blocks	\$ 26.00
NO-NC	1 Normally Open and 1 Normally	\$ 26.00
	Closed Contact Blocks	

V. CONTACT BLOCK **CONFIGURATION (RIGHT SIDE)**

CODE	DESCRIPTION	LIST
(Blank)	Operator without Contact Blocks	_
NO	1 Normally Open Contact Block	\$ 13.00
NC	1 Normally Closed Contact Block	\$ 13.00
EM	1 Early Make Contact Block	\$ 17.00
DB	1 Delayed Break Contact Block	\$ 17.00
NO-NO	2 Normally Open Contact Blocks	\$ 26.00
NC-NC	2 Normally Closed Contact Blocks	\$ 26.00
NO-NC	1 Normally Open and 1 Normally Closed Contact Blocks	\$ 26.00

VI. OPTIONS
DESCRIPTION

CODE	DESCRIPTION	LIST/PC*
(Blank)	None	_
IP20	IP20 Guard	\$ 4.00
*NOTE: \	When choosing the IP20 ontion	in order to

achieve IP20 protection a terminal guard must be assembled on each contact block configuration, increasing the List price \$4.00 for each guard.

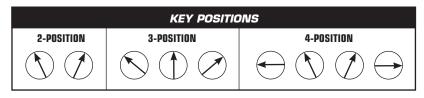


KEYED SWITCH OPTIONS

Alternate Key Combinations: Up to 9 different key combinations (CC series) are available. To order locks keyed differently, consult factory or specify on order and increase the List price \$60.00 per operator.

Master Keys: A master key is available that works in all 9 CC series key combinations. To order, specify part number MS MK1250 (\$43.00 per set of two master keys).

Extra or Replacement Keys: Available for standard keyed selector switches only. To order, specify part number ES201 (\$8.60 per set of two keys). NOTE: Two keys come standard with each operator.





30mm Keyed Selector Switches

c3controls Keyed Selector Switches offer multiple functions in a single device eliminating the need to install separate devices with individual functions based on contact block configuration. All operators feature polyester housings and all locks are premium quality brass for superior corrosion resistance. Keys are made of extra heavy brass for long life. Our Keyed Selector Switches are UL Listed and are rated Type 4/4X as standard. In addition, operators are also listed for Type 1, 2, 3, 3R, 12 and 13, and meet global standards requirements. We also offer you the opportunity to choose the appropriate clamp ring for your specific work environment; polyester clamp rings, which are designed to provide you with a modern appearance, or polished aluminum clamp rings for those who prefer a shiny rugged metal appearance. Add-on contact blocks are available for up to 8 contacts per operator. See pages 199-200 for our complete line of 30mm standard contact blocks.



UNIQUE PRODUCT FEATURES



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

- 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.
- 2. 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 attract dust and other particles in the area.

Some of Our Popular Configurations:

	2-POSITION KEYED SELECTOR SWITCH OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)											
CONTACT Symbol	CONTACT BLOCK MOUNTING POS.					MAINTAINED POSITION		ОМ	SPRING RETURN FROM LEFT TO RIGHT			
	Viewed from front of operator	LEFT	RIGHT		CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST		
1 NO	EITHER	0	Х	Key Removal Pos								
				L	KOSS2KL-NO	\$114.00	KOSRRLKL-NO	\$130.00	_	_		
0 0				R	KOSS2KR-NO	\$114.00	_		KOSRLRKR-NO	\$130.00		
				L&R	KOSS2KA-NO	\$114.00	_		_			
1 NC	EITHER	Х	0	Key Removal Pos								
0 1 0				L	KOSS2KL-NC	\$114.00	KOSRRLKL-NC	\$130.00	_			
				R	KOSS2KR-NC	\$114.00	_	_	KOSRLRKR-NC	\$130.00		
				L&R	KOSS2KA-NC	\$114.00	_		_			
								l		1		

	3-POSITION KEYED SELECTOR SWITCH OPERATORS WITH POLYESTER CLAMP RING (TYPE 4X)												
CONTACT Symbol	CONTACT BLOCK MOUNTING POS.							SPRING RETURN FROM RIGHT TO CENTER		SPRING RETURN FROM LEFT OR RIGHT TO CENTER			
	Viewed from front of operator	LEFT	CENTER	RIGHT		CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST	CATALOG #	LIST
NO/NO	LEFT	Х	0	0	Key Rem Pos								
	RIGHT	0	0	Х	L	KOSS3KL-NO/NO	\$127.00	_		KOSRRCKL-NO/NO	\$143.00	_	
					R	KOSS3KR-NO/NO	\$127.00	KOSRLCKR-NO/NO	\$143.00	_	_	_	l—
					С	KOSS3KC-NO/NO	\$127.00	KOSRLCKC-NO/NO	\$143.00	KOSRRCKC-NO/NO	\$143.00	KOSRLRCKC-NO/NO	\$143.00
					Key Rem Pos								
					L&R	KOSS3KLR-NO/NO	\$127.00	_	_	_	_	_	l—
					L&C	KOSS3KLC-NO/NO	\$127.00	_	_	KOSRRCKLC-NO/NO	\$143.00	_	l—
					R&C	KOSS3KRC-NO/NO	\$127.00	KOSRLCKRC-NO/NO	\$143.00	_	_		_



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. Upper case is standard unless specified.

*The tall legend plate (LPT) features 3 lines of text with approximately 16 characters per line and the Potentiometer legend plate comes standard with a scale and one or two lines of text, see chart D below.



	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		
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

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	OFF		
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	STOP		
24	TEST		
29	TRIP		

B. 2-POSITION SELECTOR CODE LEGEND LEFT **LEGEND RIGHT** (Blank) (Blank) 50 AUT0 **HAND** 68 AUT0 MANUAL 51 **DOWN** UP **FAST SLOW** 63 52 **FWD** REV HAND **AUTO** 53 73 HIGH LOW INCH 54 RUN 75 **LEFT RIGHT** LOCAL REMOTE 70 MANUAL 55 AUT0 0FF 0N 56 ON 0FF 57 58 CLOSE OPEN **PULL START** 65 **PUSH STOP PUSH OFF** PULL ON 66 PUSH ON **PUSH OFF** PUSH TO STOP PULL TO START 67 71 **RAISE** LOWER 59 REV **FWD** RUN JOG 60 SLOW **FAST** 69 START STOP 62 **STOP START** SUMMER 74 WINTER UP DOWN

NOT FINDING WHAT YOU NEED IN A STANDARD PLATE?

We offer Special and Custom Engraving up to 12" x 24" (304.8mm x 609.6mm). Consult factory or see page 226 for details. While our standard legend plates are available for same day shipping, our special and custom legend plates are not.

DISCOUNT SCHEDULE

9 DI	DCITIO	INI CEI	ECTOR.
 3-PI	151111	IIVI SFI	FI.IIIK

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

D. POTENTIOMETER*

CODE	DESCRIPTION
40	Blank Legend 0 - 10
41	"SPEED" 0 - 10
43	Blank Legend 0 - 100
44	"SPEED" 0 - 100

POPULAR CONFIGURATIONS:

LEGEND PLATES			
CATALOG NO.	DESIGNATION	LIST	
LPRYW-04	EMERGENCY STOP	\$ 9.00	
LP-22	START	\$ 4.00	
LPT-83	HAND OFF AUTO	\$ 5.00	

25

UP



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

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

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		

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.



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			
NOTE: \$6.00 each when ordering 3 or more of the			
same exa	rt legend plate		

Upon receipt of your order, legend plates will be setup as specified and a proof will be sent to you prior to production to ensure accuracy.

To order, submit your drawing to:

Mail: c3controls

Attn: Customer First PO Box 496 Beaver, PA 15009

PURGE LEVEL

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 237.

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.
- 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.
- 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



EECR

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.

FOR USE WITH NON-ILLUMINATED CAPS		
CODE	DESCRIPTION	LIST
ECR	Extended Ring	\$ 6.00
LECR	Large Extended Ring	\$10.00
AECR	Aluminum Extended Ring	\$10.00
FOR USE WITH ILLUMINATED LENS		
CODE	DESCRIPTION	LIST

PANEL GASKETS

Guarded Clear Polyester Ring \$ 8.00

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

THRUST & TRIM WASHERS



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

LAMP REMOVAL TOOL



Used to facilitate the removal of lamps particularly in illuminated push buttons and push-to-test operators.

CODE	DESCRIPTION	LIST
LRT	Lamp Removal Tool	\$ 8.00

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 operators in the depressed position. Our LOAFC lockoff covers and locks the operator so its position cannot be changed and features a 1/4" (6.4mm) diameter padlocking hasp.

LOAX/LOAM/LOAF

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

GUARD ATTACHMENT



LOAFC

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

CODE	FITS	LIST
PPGD	Maintained Push Buttons	\$40.00

HOLE PLUG



CODE	DESCRIPTION	LIST
HP	30mm Grey Hole Plug	\$11.00

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

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 POLYEST	ER (TYPE 4X) CL	AMP RING
Black	PMFCBK	PMXCBK	\$44.00
Green	PMFCGN	PMXCGN	\$44.00
Red	PMFCRD	PMXCRD	\$44.00
Yellow	PMFCYW	PMXCYW	\$44.00
WITH	I 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

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

IP20 TERMINAL GUARDS



Our IP20 terminal guards protect against accidental contact with live parts and can be ordered separately as an accessory or factory installed providing the convenience of a single catalog number. NOTE: IP20 terminal guards must be installed before wiring. For factory installed guards, refer to the operator page to determine the appropriate part number. For terminal marking convenience, our guards can be utilized with Series WTB2 markers (see page 461).

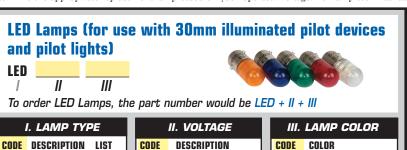
CODE	FITS	LIST
CBIP20	Standard Contact Blocks	\$ 4.00
FVIP20	Full Voltage Illuminated Push Button Operators, Pilot Lights, Push-To-Test Light Modules and Multi-Voltage Pilot Lights	\$ 4.00
MLIP20	Resistor & Transformer Momentary Illuminated Push Button Operators and Pilot Lights	\$ 4.00





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. Please refer to the chart at the bottom of the page to determine the appropriate replacement lamp based on your operator voltage. For lamp technical data, see page 229.



Our LED lamps feature built-in leakage protection.

\$28.00

LED Lamp

LED

II. VULIAGE			
CODE DESCRIPTION			
6	6V		
12	12V		
24	24V		
130	130V		

III. LAWIP COLOR			
CODE	COLOR		
AR	Amber		
BE	Blue		
GN	Green		
RD	Red		
WE	White		

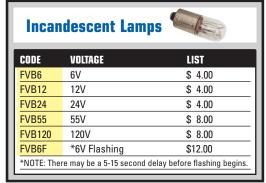
Not for use with 30RMV20-277 relampable multi-voltage pilot lights.



To order LED Lamps, the part number would be RMVLED1 + II

I. LAMP TYPE				
CODE	DESCRIPTION	FOR USE WITH	LIST	
RMVLED1	LED Lamp	30RMV20-277 Relampable Multi-Voltage Pilot Lights	\$16.00	

II. LAMP COLOR				
CODE	COLOR			
AR	Amber			
BE	Blue			
GN	Green			
RD	Red			
TW	Translucent White			
WE	White			



Neon Lamps						
CODE	VOLTAGE	COLOR	LIST			
FVB120NG	120V	Green	\$ 9.00			
FVB120NR	120V	Red	\$ 9.00			



30MM R	EPLACEMENT LAMP REF	FERENCE CHART (F	OR REFERENCE ONLY - USE CH	HARTS ABOVE TO ORDER)
OPERATOR CODE	OPERATOR VOLTAGE	LED (ALL COLORS)	INCANDESCENT	NEON
FVLU6	Full Voltage 6V AC/DC	LED6	FVB6 or FVB6F	
FVLU12	Full Voltage 12V AC/DC	LED12	FVB12	
FVLU24	Full Voltage 24V AC/DC	LED24	FVB24	
FVLU120	Full Voltage 120V AC/DC	LED130	FVB120	FVB120NG or FVB120NR
TFLU120	Transformer 120V AC	LED6	FVB6 or FVB6F	
TFLU240	Transformer 240V AC	LED6	FVB6 or FVB6F	_
TFLU277	Transformer 277V AC	LED6	FVB6 or FVB6F	_
TFLU480	Transformer 480V AC	LED6	FVB6 or FVB6F	_
RLU120L	Resistor 120V AC/DC*	LED24	_	_
RLU120I	Resistor 120V AC/DC*	_	FVB55	_
RLU240L	Resistor 240V AC/DC*	LED24	_	_
RLU240I	Resistor 240V AC/DC*	_	FVB120	_
RLU240N	Resistor 240V AC/DC*	_	_	FVB120NG or FVB120NR
RLU480	Resistor 480V AC/DC*	LED130	_	FVB120NG or FVB120NR
RTLU6	Dual Input 6V AC/DC	LED6	FVB6	_
RTLU12	Dual Input 12V AC/DC	LED12	FVB12	_
RTLU24	Dual Input 24V AC/DC	LED24	FVB24	_
RTLU120	Dual Input 120V AC/DC	LED130	FVB55	
30RMV20-277	Multi-Voltage 20-277V AC/DC	RMVLED1	_	_
*NOTE: Lamps are unio	que to Resistor Light Units. Refer to side of	light unit for correct replaceme	ent lamp part number.	



				30MM IND	USTRIA	L PILOT	DEVICES				
ELECTRICAL RATINGS											
.amp	Industry Number	Rated V	olts	Lumens (MSCD)	Design	Life (Hrs.)	Current Draw (mA)	Lamp Type		Shock & Vibration	Leakage Protection
FVB6	1866	6.3\	,	0.65	5	5,000	250	Incandes		Very Good	N/A
FVB12	756	14V		0.31	15	5,000	80	Incandes	cent	Good	N/A
FVB24	757	28V		0.62	7	7,500	80	Incandes	cent	Good	N/A
FVB55	1835	55V		1.1	5	5,000	50	Incandes	cent	Good	N/A
FVB120	**	130\	/	0.36	10	0,000	20	Incandes	cent	Good	N/A
LED6	**	6V			10	00,000	50	LED		Excellent	14 mA
LED12	**	12V		Varies w/ Color	10	00,000	<20	LED		Excellent	4 mA
LED24	**	24V	'	2000 mcd Typical	10	00,000	<20	LED		Excellent	4 mA
LED130	**	120/13	0V	Турісаі	10	00,000	<10	LED		Excellent	2 mA
FVB120NG	_	95-13	5V	Typical (Glows)	25	5,000	<5	Neon/Gr	een	Very Good	N/A
FVB120NR	_	95-13	5V	Typical (Glows)	25	5,000	<5	Neon/F	led	Very Good	N/A
RMVLED1	***	20-27	7V	Varies w/ Color 2000 mcd Typical (white 6000 mcd)	10	00,000	See Multi- Voltage Chart Below	LED		Very Good	N/A
**Designates a lamp de	sign optimize	d for c3cont	rols illur	ninated devices. See I	LED replac	ement lamp	s on page 228.				
***Specifications for bo	th integral an	d relampabl	e multi-	voltage lights.							
MULTI-VOLTAGE POWER	CONSUMPTIO	N & CURREI	NT DRAV	I							
S	ystem Voltage			AC Current Draw (mA)	DC	Current Draw (mA)		Power Consum	nption (W)
	24V			21			20				
	48V			17			7				
	120V			3.5						A.C1 F	00: 1/0
	125V			_			3		AC: <1 DC: <1/2		JU: <1/2
	240V			2.5							
	250V			_			2		_		
FLACUINO DATE (FL. 1:	277V		2.5 —								
FLASHING RATE (Flashing) PROTECTION FEATURES	ooard only)					40-50	ops/min				
Fused to Fail Ope	n					Ye	ie .				
DIELECTRIC STRENGTH (TERMINAL TO GROUND)						2200V for					
STANDARD CONTACTS				Utilization Ca	tonory						
SIMBAND CONTACTO				IEC	UL		Make Rating	Break	Rating	Ith-Ther	rmal Current
		AC		AC-15	A600		7200VA		0VA		10A
		DC		DC-13	P300			13	8VA		5A
	DC DC-13 P300 138VA 138VA 5A NOTE: For AC voltage below 72V AC the max. allowed switching current is 10A = Ith. For DC voltages below 28V DC the max. allowed switching current is 5A = Ith.										
NOTE: For AC voltage bel	ow 72V AC the		ed switc	hing current is 10A = Ith	h. For DC v	oltages belo		ax. allowed s	witching	current is $5A = Ith$.	
For switching applicatio	ns below 24V	max. allow	metic RI	EED contacts are reco	mmended	I. Hermetic F	w 28V DC the m	excellent in	environm	ents containing che	
For switching applicatio	ns below 24V	max. allow	metic RI	EED contacts are reco	mmended	I. Hermetic F	w 28V DC the m	excellent in	environm	ents containing che	
For switching applicatio	ns below 24V	max. allow	metic RI	EED contacts are reco	mmended	I. Hermetic F	w 28V DC the m	excellent in	environm	ents containing che	
For switching applicatio oxidizing agents, and ex	ns below 24V plosive gases	e max. allow /40mA - Her . Please ref	metic RI	EED contacts are reco HAZARDOUS section	ommended of the Sei	I. Hermetic F ries 30 devid	w 28V DC the mage also eas for more info	excellent in ormation. Av	environm vailable o	ents containing che on c3controls' 30MN	
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators	ns below 24V plosive gases	e max. allow /40mA - Her :. Please ref UNITS	metic RI	EED contacts are reco HAZARDOUS section	ommended of the Sei	I. Hermetic F ries 30 devid	w 28V DC the m. Reeds are also e ces for more info	excellent in ormation. Av	environm vailable o	ents containing che on c3controls' 30MN	
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature	ns below 24V plosive gases	e max. allow /40mA - Her i. Please ref UNITS	metic RI	EED contacts are reco HAZARDOUS section	ommended of the Sei	I. Hermetic F ries 30 devid	w 28V DC the m. Reeds are also e ces for more infi use in Type 1, 2 -40 to +131 /	excellent in ormation. Av , 3, 3R, 4/4X, -40 to +55	environm vailable o	ents containing che on c3controls' 30MN	
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature	ns below 24V plosive gases GS	e max. allow /40mA - Her . Please ref UNITS °F/°C	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Sei	I. Hermetic F ries 30 devid	w 28V DC the mage are also expressed for more information with the second secon	excellent in ormation. Av , 3, 3R, 4/4X, -40 to +55 -40 to +85	environm vailable o	ents containing che on c3controls' 30MN	
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating environments	ns below 24V plosive gases GS	e max. allow /40mA - Her . Please ref UNITS °F/°C	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Sei	I. Hermetic F ries 30 devid	w 28V DC the mage are also expressed for more information with the second secon	excellent in ormation. Av , 3, 3R, 4/4X, -40 to +55 -40 to +85	environm vailable o	ents containing che on c3controls' 30MN	
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating environterminal & WIRING CO	ns below 24V plosive gases GS	e max. allow /40mA - Her . Please ref UNITS °F/°C	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta	xcellent in ormation. Av., 3, 3R, 4/4X, -40 to +55 -40 to +85 nts.	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating enviro TERMINAL & WIRING CO AWG Conductor	ns below 24V plosive gases GS	e max. allowed with the control of t	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta	2x cellent in ormation. An ormation. An ormation. An ormation. An ormation. An ormation and ormation.	environm vailable c	ents containing che on c3controls' 30MN	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating enviro TERMINAL & WIRING CO AWG Conductor Recommended Torque	ns below 24V plosive gases GS	e max. allow /40mA - Her . Please ref UNITS °F/°C	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta	2x cellent in ormation. An ormation. An ormation. An ormation. An ormation. An ormation and ormation.	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating enviro TERMINAL & WIRING CO AWG Conductor Recommended Torque CONSTRUCTION	ns below 24V plosive gases GS	e max. allowed with the control of t	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta	2x cellent in ormation. An ormation. An ormation. An ormation. An ormation. An ormation and ormation.	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating enviro TERMINAL & WIRING CO AWG Conductor Recommended Torque CONSTRUCTION OPERATING FORCES	ns below 24V plosive gases GS nments below	e max. allowed with the control of t	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta	2x cellent in ormation. An ormation. An ormation. An ormation. An ormation. An ormation and ormation.	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operators Operating Temperature Storage Temperature NOTE: Operating environmental & WIRING COLONG AWG Conductor Recommended Torque CONSTRUCTION OPERATING FORCES PUSH BUTTONS (OPER	ns below 24V plosive gases GS nments below	e max. allow /40mA - Her . Please ref UNITS °F / °C °F / °C v freezing te	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta nded) [.5 ~ 4mm 7 – 10 [0.8	2, 3, 3R, 4/4X, -40 to +55 -40 to +85 nts. 2] One or tw	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating environmental & WIRING COLONG AWG Conductor Recommended Torque CONSTRUCTION OPERATING FORCES PUSH BUTTONS (OPER Momentary	ns below 24V, plosive gases GS nments below NSIDERATION ATORS ONLY)	e max. allow/40mA - Her . Please ref UNITS °F / °C °F / °C v freezing te	metic RI er to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ses for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta nded) [.5 ~ 4mm 7 - 10 [0.8	2, 3, 3R, 4/4X, -40 to +55 -40 to +85 nts. 2] One or tw 3 – 1.0]	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only
For switching applicatio oxidizing agents, and ex ENVIRONMENTAL RATIN Operators Operating Temperature Storage Temperature NOTE: Operating environmental & WIRING COLONG CONDUCTOR RECOMMENDED TO THE CONSTRUCTION OPERATING FORCES PUSH BUTTONS (OPER	ns below 24V, plosive gases GS nments below NSIDERATION ATORS ONLY)	e max. allow /40mA - Her . Please ref UNITS °F / °C °F / °C v freezing te	metic Rier to the	EED contacts are reco HAZARDOUS section R	ommended of the Ser lated and (e absent o	I. Hermetic F ries 30 device Certified for	w 28V DC the m Reeds are also e ces for more info use in Type 1, 2 -40 to +131 / -40 to +185 / quids or polluta nded) [.5 ~ 4mm 7 – 10 [0.8	2, 3, 3R, 4/4X, -40 to +55 -40 to +85 nts. 2 One or tw 3 – 1.0]	environm vailable c	ents containing cho on c3controls' 30MN and IP65	A products only



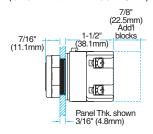
4				
lbs. [N]	1.5 [6.7]			
in-lbs. [Nm]	1.7 [.19]			
in-lbs. [Nm]	1.7 [.19]			
in-lbs. [Nm]	1.7 [.19]			
lbs. [N]	4 – 6 [17.9 – 26.7]			
lbs. [N]	13 [57.8]			
lbs. [N]	4.7 [20.9]			
in-oz. [Nm]	3 – 12 [.11 Max.] (300° Rotation)			
lbs. [N]	1 [4.45]			
	Refer to the appropriate Lamp Data			
VAC/VDC	20-277 (Burden .816W Max.)			
VA	2			
	-			
Ons	250,000			
· ·	5,000,000			
· ·	5,000,000			
	250,000			
· ·	10,000,000			
 	Refer to the appropriate Lamp Data			
Оро.	notes to the appropriate Early Data			
	Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)			
	, , ,			
	Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)			
	Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)			
	Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)			
	Thermoplastic Polyester and Polyester Blends (UV Stabilized for outdoor use)			
	High Impact Polycarbonate (UV Stabilized for outdoor use)			
	High Impact Polycarbonate (UV Stabilized for outdoor use)			
	Custom Polymers: Teflon, Silicon and Moly-Disulfide impregnated for improved wearability			
	Custom Polymers: Fluorosilicone and Thermoplastic Neoprene			
	Neoprene Gaskets			
	Thermoplastic - Molded Neoprene and Alloy Derivitives			
	BUNA N - Rubber - Teflon Coated			
	Thermoplastic - Elastomer Molded Seals			
	Fluorosilicone - Boots			
	Brass and Stainless Steel			
	Brass and Stainless Steel			
	Stade and Stannood Steel			
	Brass and Stainless Steel			
1				
	Stainless Steel throughout			
	in-lbs. [Nm] in-lbs. [Nm] in-lbs. [Nm] lbs. [N] lbs. [N] lbs. [N] lbs. [N] VAC/VDC			



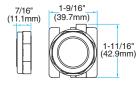
MOMENTARY & MAINTAINED NON-ILLUMINATED PUSH BUTTONS

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 237.

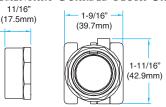
Non-Illuminated Operator (shown with Flush Cap)



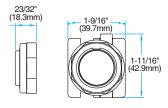
MOMENTARY FLUSH CAP



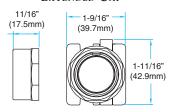
MOMENTARY GUARDED FLUSH CAP



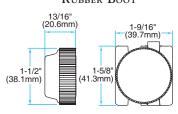
MOMENTARY EXTENDED CAP



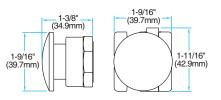
MOMENTARY GUARDED EXTENDED CAP



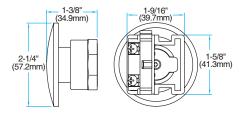
MOMENTARY STANDARD
RUBBER BOOT



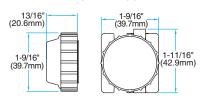
MOMENTARY 1-1/2" (38MM)
MUSHROOM CAP



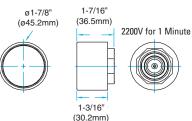
Momentary 2-1/4" (57.2mm) Jumbo Mushroom Cap



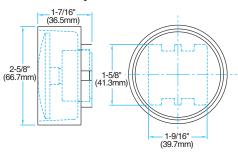
Momentary Fluorosilicone Rubber Boot



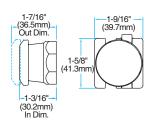
MOMENTARY 1-1/2" (38MM) SHROUDED MUSHROOM CAP



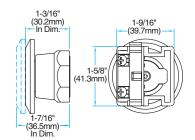
MOMENTARY 2-1/4" (57.2MM) SHROUDED JUMBO MUSHROOM CAP



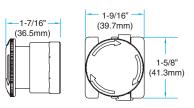
2-Position Push-Pull Maintained 1-1/2" (38mm) Mushroom Cap



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



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

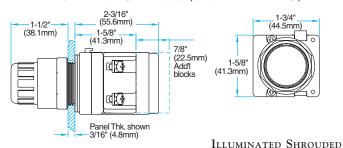




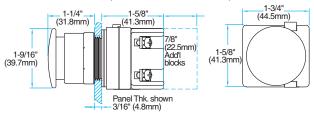
MOMENTARY ILLUMINATED PUSH BUTTONS

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 237.

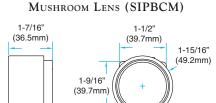
ILLUMINATED FULL VOLTAGE, TRANSFORMER, RESISTOR AND DUAL-INPUT OPERATORS (SHOWN WITH IPBC)

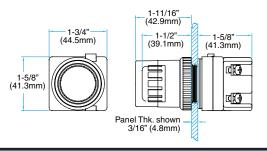


ILLUMINATED FULL VOLTAGE OPERATORS (SHOWN WITH IPBCM)



ILLUMINATED GUARDED LENS (GIPBC)

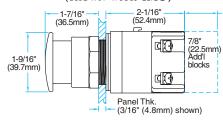


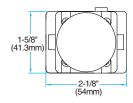


2 & 3 Position push-pull maintained illuminated push buttons

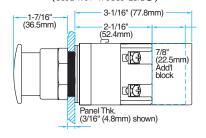
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #1 on page 237.

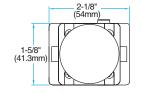
ILLUMINATED FULL VOLTAGE OPERATOR (SHOWN WITH IMC)

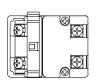




ILLUMINATED TRANSFORMER AND RESISTOR OPERATORS (SHOWN WITH IMC)



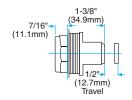




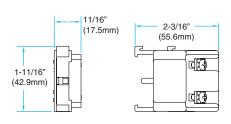
RESET PUSH BUTTON

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 237.



ALTERNATE ACTION BLOCK

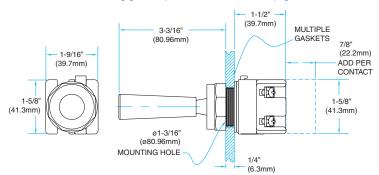




Wobble Stici

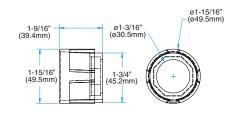
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

See mounting gasket specifications chart #3 on page 237.



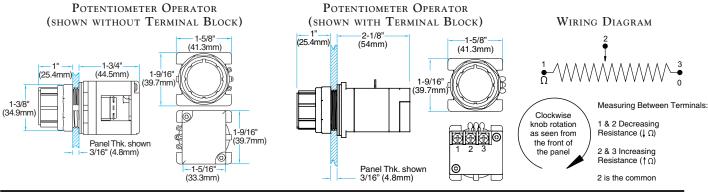
GUARD ATTACHMENT

PPGD

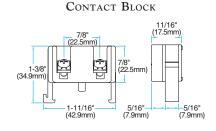


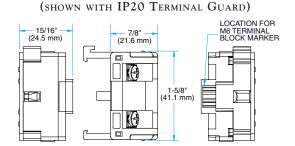
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets.

See mounting gasket specifications chart #3 on page 237.



CONTACT





CONTACT BLOCK

A600 (AC) Rating Designation: A600 (7200 VA Make

and 720 VA Break), 600V AC Maximum, Maximum Continuous Thermal Current, Ith: 10A

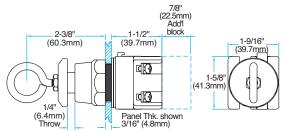
P300 (DC) Rating Designation:

P300 (138 VA Make and 138 VA Break), 250V DC Maximum. Maximum Continuous Thermal Current, Ith: 5A

CABLE PULL OPERATORS

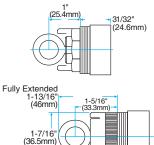
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #3 on page 237.

PUSH-PULL MAINTAINED CABLE PULL OPERATOR



MOMENTARY AND HEAVY DUTY CABLE PULL **OPERATORS**

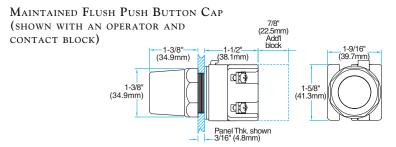
MOMENTARY BOOTED CABLE PULL OPERATOR



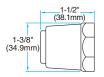


MAINTAINED FLUSH & EXTENDED PUSH BUTTON CAPS

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 237.



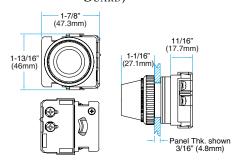
Maintained Extended Push Button Cap



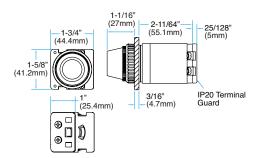
PILOT LIGHTS

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 237.

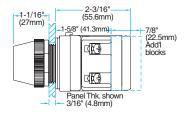
FULL VOLTAGE PILOT LIGHT OPERATOR (SHOWN WITH PLL AND IP20 TERMINAL GUARD)



TRANSFORMER & RESISTOR PILOT LIGHT OPERATORS (SHOWN WITH PLL AND IP20 TERMINAL GUARD)



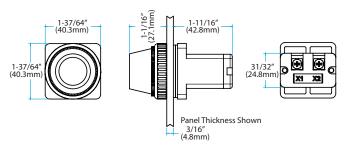
DUAL INPUT
PILOT LIGHT OPERATOR
(SHOWN WITH PLL)



MULTI-VOLTAGE PILOT LIGHT

Fully-assembled operators come standard with four 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #2 on page 237.

Non-Relampable & Relampable

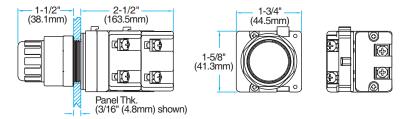


VISIT WWW.C3CONTROLS.COM TO DOWNLOAD CAD DRAWINGS

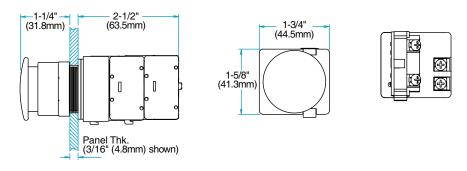


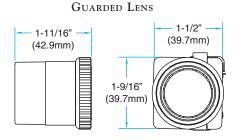
Fully-assembled operators come standard with one 3/16" (4.8mm) and three 1/16" (1.6mm) gaskets. See mounting gasket specifications chart #1 on page 237.

Full Voltage, Transformer & Resistor Push-To-Test Operators (shown with IPBC)

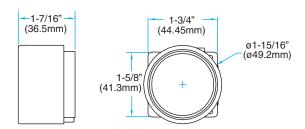


FULL VOLTAGE, TRANSFORMER & RESISTOR PUSH-TO-TEST OPERATORS (SHOWN WITH IPBCM)





SHROUDED MUSHROOMS LENS



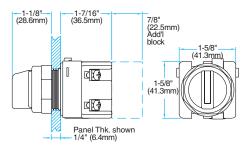
724.775.7926 :: www.c3controls.com



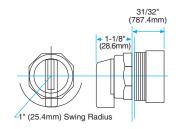
SELECTOR SWITCHES

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 237.

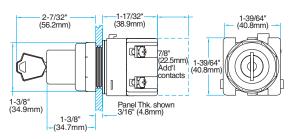
SELECTOR SWITCH OPERATOR (SHOWN WITH STANDARD HANDLE)



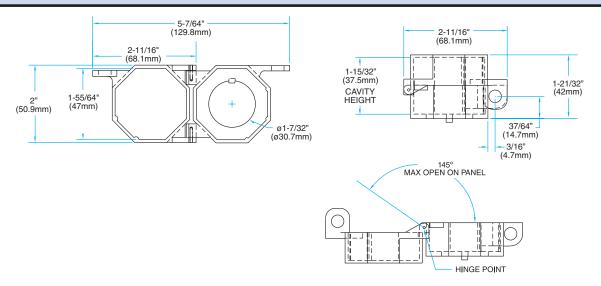
SELECTOR SWITCH LEVER HANDLE



KEYED SELECTOR SWITCH OPERATOR

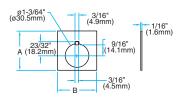


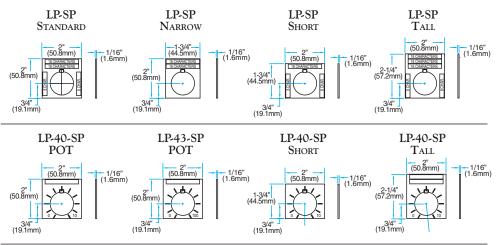
LOCK-OFF ATTACHMENT



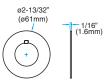


STANDARD LEGEND PLATE WITH BREAK-AWAY POSITIONING FOR OPTIONAL THRUST WASHER ACCESSORY

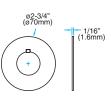




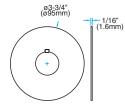








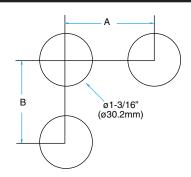
LPRJ-SP JUMBO ROUND



MOUNTING GASKETS CHART #1					
PANEL THICKNESS IN DECIMALS		ETS NEEDED & 1/16" (1.6MM)			
less than .080	1	3			
.080 – .132	1	2			
.133 – .185	1	1			
.186 – .238	0	3			
.239 – .291	0	2			
.292 – .344	0	1			
NOTE: Remove one 1/16" (1.6mm) gasket when using a legend plate.					

MOUNTING GASKETS CHART #2					
PANEL THICKNESS IN DECIMALS	# OF GASK 3/16" & (4.8MM)	ETS NEEDED 1/16" (1.6MM)			
less than .080	1	2			
.080132	1	1			
.133 – .185	0	3			
.186 – .238	0	2			
.239 – .291	0	1			
NOTE: Remove one 1/16" (1.6mm) gasket when using a legend plate.					

MOUNTING GASKETS CHART #3					
PANEL THICKNESS IN DECIMALS	# OF GASK 3/16" & (4.8MM)	ETS NEEDED 1/16" (1.6MM)			
less than .080	1	5			
.080 – .132	1	4			
.133 – .185	1	3			
.186 – .238	1	2			
.239 – .291	1	1			
.292 – .344	0	3			
NOTE: Remove one 1/16" (1.6mm) gasket when using a legend plate.					



MOUNTING HOLE PATTERN			
SPACING	A	В	
Minimum	2" (50.8mm)	2" (50.8mm)	
Standard	2-1/14" (57.2mm)	2-1/14" (57.2mm)	