

30MM HAZARDOUS PILOT DEVICES



SERIES 30 PRODUCT PROFILE

c3controls **30mm Hazardous Pilot Devices** are designed for your most demanding hazardous duty applications and include a wide range of push buttons, pilot lights, and selector switches. Full-voltage, resistor, and dual input operators are available from 6V-480V AC/DC.

LEADING THE INDUSTRY WITH OUR INNOVATIVE AND RUGGED DESIGN

✓ Easy to Install	Our contact blocks snap-on for secure assembly and are color coded for quick circuit identification.
✓ Class 1, Division 2	Leading the industry with the largest selection of Class 1, Div. 2 hermetically sealed reed contact blocks and factory sealed contact blocks.
✓ Simple Customization	Our light modules come with various lens color options for appropriate operator interface and are available in incandescent, neon, or our LED lamps with leakage protection.
✓ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the contact blocks for easy reference during installation.
✓ Heavy Duty	Polyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation. For added protection, metal parts are nickel-plated.
✓ Convenient	Reduce inventory with our interchangeable modular design, providing endless options for appropriate operator interface.
✓ 100% Reliability	Hermetically sealed and factory sealed contact blocks are manufactured with all stainless steel hardware for use in harsh environments.
✓ Added Security	All 30mm hazardous location operators come with a screw tightened mounting bracket to ensure contact blocks remain snug against operator.
✓ Environmentally Secure	With 4/4X and IP65 ratings, our 30mm line of pilot devices are built to last and withstand dust, corrosion, ice, and rain.
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory, and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.
✓ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.

*See c3controls Terms & Conditions



UNIQUE FEATURES

Metal on the inside—where it counts!

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

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 Fluorosilicone rubber boots protect both the operators and the circuits behind them from harsh chemicals and climates. They feature a nickel-plated brass thread ring that is molded into a special thermoset compound guaranteed to out perform Hypalon boots.



c3controls®

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30MM HAZARDOUS PILOT DEVICES

SPECIFICATIONS

DIELECTRIC STRENGTH (MECHANICAL CONTACTS) 2200V for 1 Minute

FACTORY SEALED CONTACT BLOCK - CBFS/CBFSR

Class I Div. 2 Gr. B, C, & D/Zone 2 Gr. IIB +H2

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

NOTE: For AC voltage below 72V AC (28V DC) the max. allowed switching current is 10A=Ith (5A=Ith).
For switching applications below 24V/40mA, Hermetic Reed contacts are recommended.

HERMETICALLY SEALED POWER REED CONTACT BLOCK

Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC

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

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

HERMETICALLY SEALED MEDIUM-LOGIC REED CONTACT BLOCK

Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC

Utilization Category					
	IEC	UL	Inductive	Resistive	Ith Thermal Current
AC	AC-12	250V Max.	40VA	100 Watt	3A

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

HERMETICALLY SEALED MID-POWER REED CONTACT BLOCK

Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC

Utilization Category					
	IEC	UL	Make Rating	Break Rating	Ith Thermal Current
AC	AC-15	C300	1800VA	180VA	2.5A
DC	DC-13	Q150	69VA	69VA	2.5A

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

HERMETICALLY SEALED LOGIC REED CONTACT BLOCK

Class I Div. 2 Gr. A, B, C, & D/Zone 2 Gr. IIC

Utilization Category					
	IEC	UL	Inductive	Resistive	Ith Thermal Current
AC		220V Max.	N/A	40 Watt	2A

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

INDICATING LIGHTS

Light Unit	T-Code
FV Incandescent Lights	T4A
FV LED Lights	T6 (No marking required)
Resistor Incandescent Lights	T3C
Resistor LED Lights	T4A
Multi-Voltage 20V-277V LED Lights	T4A

ENVIRONMENTAL RATINGS

	Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65
Operating Temperature	-40° F to +131° F (-40° C to +55° C)
Storage Temperature	-40° F to +185° F (-40° C to +85° C)

TERMINAL & WIRING CONSIDERATION

Wire: AWG 22-12 CU	(Copper only - Solid/Stranded) [5 ~ 4mm ²] 1 or 2 wires permitted per termination.
Recommended Torque	7-10 lb-in [0.8-1.0 Nm]

ROHS COMPLIANCE

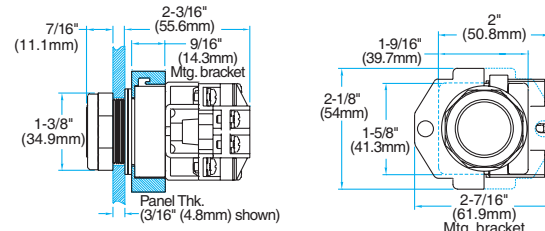
 For RoHS compliance documentation by product, refer to www.c3controls.com.

For complete ratings and detailed specifications refer to www.c3controls.com.

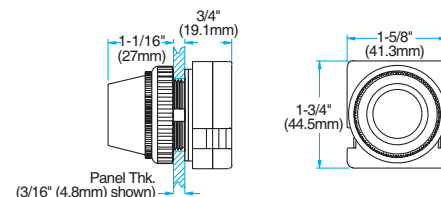


DIMENSIONS

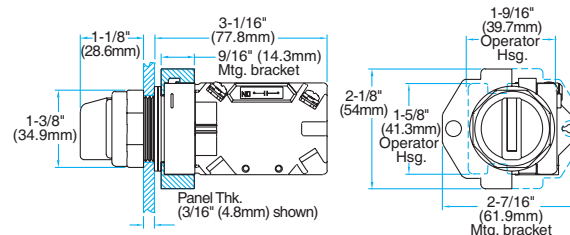
Non-Illuminated Operator (shown with Flush Cap & Factory Sealed Contact Block)



Full Voltage Pilot Light Operator (shown with PLL)



Selector Switch Operator (shown with Standard Handle)



CERTIFICATIONS

Conformity to Standards:

PILOT DEVICES

UL 508, 698, 1604 & 2279

CSA C22.2 No. 0, 14, 25, 30M, 157 & 213

IEC 60947-1, 60947-5-1

MULTI-VOLTAGE PILOT LIGHTS

UL 508, 1604

IEC 60947-1, 60947-5-1

Certifications:

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

E68568 (Guide NKCR, NKCR7)

CSA File #: LR47446

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



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

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



Visit www.c3controls.com to download product certifications.

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