# 22MM NEMA PILOT DEVICES



## SERIES 22 PRODUCT PROFILE

c3controls' **22mm NEMA Pilot Devices** are for all those tight fitting places. Our nonilluminated momentary and maintained push buttons, pilot lights, and selector switches are compact and ready for field wiring in almost any environment. Full voltage operators are available in 12V AC/DC, 24V AC/DC, and 120V AC/DC.



### DELIVERING THE MOST RUGGED 22MM NEMA DEVICES IN THE INDUSTRY

✓ Easy to InstallOur NEMA operators' compact and thin design comes with integral circuits ready for field wiring.✓ Simple CustomizationOur light modules come with various lens color options for appropriate operator interface, and feature LED lamps with leakage protection.✓ Rugged DesignOptional polyester or polished aluminum clamp rings with coarse 16 pitch threads for quick and easy utilization that won't cross thread or strip.✓ Visible ✓ CertificationsOur product certifications and electrical ratings are clearly marked on the outside of the contact blocks for easy reference during installation.✓ Heavy DutyPolyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation.✓ FlexibleOur "Add-On" Contact Blocks can be added to the basic operator to increase the number and type of contacts. Up to 3 blocks with 2 circuits each may be added, giving a total of 8✓ ConvenientReduce inventory with our interchangeable modular design, providing endless options for appropriate operator interface.✓ EnvironmentallyWith 4/4X and IP65 ratings, our 22mm line of Pilot Devices are built to last and withstand dust, corrosion, ice, and rain.✓ Limited Lifetime Warranty*Product availability reduces inventory, and improves cash-flow— saving you money. With d3contols any order for standard catalog items received by 6:00pm ET is guaranteed to ship same-day.✓ Advantage PricingOur 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.		
✓ Simple Customization       appropriate operator interface, and feature 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 "Add-On" Contact Blocks can be added to the basic operator to increase the number and type of contacts. Up to 3 blocks with 2 circuits each may be added, giving a total of 8 contacts per 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 22mm 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.	✓ Easy to Install	
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**UNIQUE FEATURES** 

### Metal on the inside—where it counts!

 c3controls Maintained Push Buttons contain a solid brass detent mechanism ensuring reliable operation in emergency stop applications, and providing 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 rubber boots protect both the operators and the circuits behind them from harsh chemicals and climates. They feature a built-in clamp ring that is molded with Neoprene and has been modified to provide added pliability and protection against dust, freezing and thawing environments.

\*See c3controls Terms & Conditions





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## 22MM NEMA PILOT DEVICES

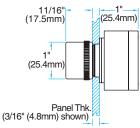
## SPECIFICATIONS

ELECTRICAL RATINGS											
Lamp	Industry Number	Rated Volts	Lumens (MSCD)	Design Life (Hrs.)	Current Draw (m			Shock & Vibration	Leakage Protection		
LED12	**	12V †	Varies w/Color		< 20			Excellent	4 mA		
LED24	**	24V †	2000	100,000	< 20	LEI	C		4 mA		
LED130	**	130V †	mcd Typical		< 10				2 mA		
** Designates a lamp design optimized for c3controls Illuminated Devices.											
† LED voltage tolerance is +/- 10%											
DIELECTRIC STRENGTH (MECHANICAL CONTACTS) 2200V for 1 Minute											
STANDARD CONTACTS											
		Utilizatio	on Category								
		IEC	UL	Mak Ratin		Break Rating Ith Therma		Ith Thermal	Current		
AC		AC-15	A600	7200\	/A 7	720VA		10A			
DC		DC-13	P300	138V	A	138VA 5		5A	5A		
NOTE: For AC voltages below 72VAC the max. allowed switching current is 10A=lth. For DC voltages below 28VDC the max. allowed switching current is 5A=lth.											
ENVIRON	VENTA	L RATINO	GS								
		Type 1, 2, 3, 3R, 4/4X, 12, 13, and IP65									
Operating Tempe	erature	-40° F to +131° F (-40° C to +55° C)									
Storage Tempera	ature	-40° F to +185° F (-40° C to +85° C)									
TERMINAL & WIRING CONSIDERATION											
Wire: AWG 22 -1	2 CU	(Copper only - Solid & Stranded) [.5 ~ 4mm <sup>2</sup> ] One or two wires permitted per termination.									
Recommended	Torque			7-10	lb-in [.8 Nı	n]					
<b>ROHS CON</b>		NCE Fo	or RoHS complian	ce documenta	ation by pro	duct, refer t	o ww	w.c3controls.c	om.		

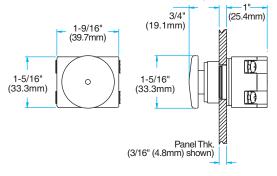
For complete ratings and detailed specifications refer to www.c3controls.com.

### DIMENSIONS

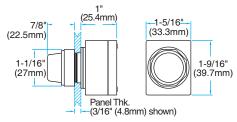
Momentary Non-Illuminated Operator (shown with Flush Cap)



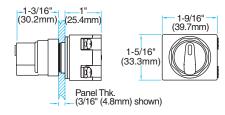
2-Position Push-Pull Maintained Non-Illuminated Operator (shown with 1-1/2" [38mm] Mushroom Cap)



### Full Voltage Pilot Light Operator



Selector Switch Operator (shown with Standard Handle)



## CERTIFICATIONS

### **Conformity to Standards:**

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

### Certifications:

UL File #: E68568 (Guide NKCR, NKCR7) CSA File #: LR47446-1 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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