22MM IEC PILOT DEVICES



SERIES 22 PRODUCT PROFILE

c3controls line of **22mm IEC Pilot Devices** includes a wide range of push buttons, pilot lights, selector switches, special operators, and accessories, all engineered for superior durability and long life. We offer multiple cap types for our push buttons, including flush, extended, and mushroom caps, and our light units are available in multi voltage and full voltage.

THE MOST INNOVATIVE LINE OF AMERICAN ENGINEERED 22 IEC PILOT DEVICES

V Proven	Our 22mm IEC operators are UL Listed and CE marked meeting global standards requirements.
✓ Environmentally Secure	With 4/4X and IP66 ratings, our 22mm line of pilot devices are built to last and withstand dust, corrosion, ice, and rain.
✓ 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.
🗸 Quick & Simple	The latching mechanism enables the user to wire the contact blocks & light modules separate from the operator and outside the confined space of the control panel.
✓ Low Profile	The 22mm line assumes the lead in the industry with the shortest depth behind the panel.
🗸 Rugged Design	Manufactured to be the highest quality—inside and out. With its metal appearance and sleek design, you know you are getting the quality you deserve.
✓ 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 2 deep and up to 3 across for a total of 6 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.
✓ 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.



UNIQUE FEATURES

Shorter Depth & Rugged Design

 Our compact line saves you space behind the panel with our shorter contact blocks and light modules delivering the shortest depth 22mm Pilot Devices engineered in the USA. And with our metal appearance you get quality and durability inside and out.

EN418 Emergency Stop Operators

 c3controls maintained push-twist-release operators meet the global compliance standards for EN418—Safety of Machinery, and they feature a unique trigger action and are available in both non-illuminated and illuminated versions.

Exclusive Multi-Voltage Lights

• Our multi-voltage light units—the only U.S. engineered multivoltage light in the industry!—operate at any voltage from 20V to 277V AC or DC without losing intensity, making them easily interchangeable across multiple applications.

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.

Save Time with Dual Push Buttons

 With the ability to combine the functionality of two operators in one space, our Dual Push Buttons save you in labor costs and time spent in installation. Our dual push buttons are available in both illuminated and non-illuminated versions making them perfect for any application.

*See c3controls Terms & Conditions



c3controls

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22MM IEC PILOT DEVICES

SPECIFICATIONS

ELECTRICAL RATINGS								
Lamp	Industry Number	Rated Volts	Lumens (MSCD)	Design Life (Hrs.)	Current Draw (mA)	Lamp Type	Shock & Vibration	Leakage Protection
FVB6	1866	6.3V	0.65	5,000	250	Incand.	Very Good	N/A
FVB12	756	14V	0.31	15,000	80	Incand.	Good	N/A
FVB24	757	28V	0.62	7,500	80	Incand.	Good	N/A
FVB55	1835	55V	1.1	5,000	50	Incand.	Good	N/A
FVB120	**	130V	0.36	10,000	20	Incand.	Good	N/A
LED6	**	6V†	Varies w/Color 2000 mcd Typical	100,000	50	LED*	Excellent	14 mA
LED12	**	12V†		100,000	< 20	LED*	Excellent	4 mA
LED24	**	24V†		100,000	< 20	LED*	Excellent	4 mA
LED130	**	120/130V†		100,000	< 10	LED*	Excellent	2 mA
W22UNR-12L	**	12V AC/DC†		100,000	< 18	LED*	Excellent	< 3 mA
W22UNR-24L	**	24V AC/DC†		100,000	< 18	LED*	Excellent	< 3 mA
W22UNR-120L	**	110-130V AC/DC†		100,000	< 18	LED*	Excellent	< 3 mA
W22UNR-240L	**	220-240V AC/DC†		100,000	< 18	LED*	Excellent	< 3 mA

** Designates a lamp design optimized for c3controls Illuminated Devices

† LED voltage tolerance is +/-10%

48	17	7	
120	3.5	—	
125	—	3	AC: <1 DC: <1/2
240	2.5	—	00111/2
250	_	2	
277	2.5	_	

DIELECTRIC STRENGTH (MECHANICAL CONTACTS) 2200V for 1 Minute
STANDARD CONTACTS

	Utilization	Category			
	IEC	UL	Make Rating	Break Rating	Ith Thermal Current
AC	AC-15	A600	7200VA	720VA	10A
DC	DC-13	Q600	69VA	69VA	2.5A
NOTE: For AC voltage below 72V AC the max allowed switching surrent is 10A-lth. For DC voltages below 28V DC the					

NOTE: For AC voltage below 72V AC the max. allowed switching current is 10A=Ith. For DC voltages below 28V DC th max. allowed switching current is 2.5A=Ith.

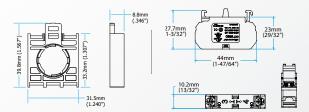
Type 1, 2, 3, 3R, 4/4X, 12, 13				
Non-Illuminated and Illuminated Push-Twist-Release Operators for Indoor Use Only				
IP-66 (per EN 60529)				
-40° C to +55° C (-40° F to +131° F)				
-40° C to +85° C (-40° F to +185° F)				
TERMINAL & WIRING CONSIDERATION				
(Copper only - Solid & Stranded) [.5 ~ 4mm ²] One or two wires permitted per termination.				
7-10 lb-in [.8 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.

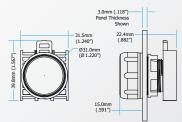
DIMENSIONS

Latching Device

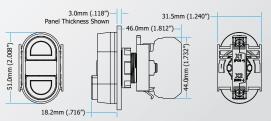
Contact Block



Non-Illuminated Operator (shown with Flush Cap)



Illuminated Full Voltage and Multi-Voltage Dual Push Button Operators (shown with 1 Flush Cap and 1 Extended Cap)



2-Position Push-Twist Release Maintained Non-Illuminated Operator (shown with 40mm [1-9/16"] Mushroom Cap)



CERTIFICATIONS

Conformity to Standards: PILOT DEVICES

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

MULTI-VOLTAGE LIGHT MODULES UL 508

IEC 60947-1, 60947-5-1

Certifications:

UL File #: E68568 (Guide NKCR, NKCR7)

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

UL File#: E68568 (Guide NKCR, NKCR7) CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



Visit www.c3controls.com to download product certifications.

