

# 16MM PILOT LIGHTS



## SERIES 16 PRODUCT PROFILE

c3controls **16mm Pilot Lights** feature Lexan™ lenses in a variety of colors and are built to handle even the harshest of environments. Designed for use in switchgear applications, our light units are available in multi-voltage, full voltage, dual input, and resistor.



### COMPACT LIGHTS SAVE YOU VALUABLE SPACE WHERE YOU NEED IT MOST

✓ <b>Quick &amp; Simple</b>	Front panel mounting for simple installation & lamp replacement.
✓ <b>Long Lasting</b>	Our reflection technology and state-of-the-art LED lamps improve visibility from all angles, and c3controls LED lamps last 100,000 hours—that's 11.4 years!
✓ <b>Rugged Design</b>	Our rugged Lexan™ lenses can resist high impact for reliable performance in most environments—even in high ambient temperatures.
✓ <b>Heavy-Duty</b>	Polyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation, and encases the resistors to keep heat away from the wires.
✓ <b>Simple Customization</b>	Various lens color options are available for appropriate operator interface and our light units come in incandescent, neon or LED.
✓ <b>Visible Certifications</b>	Our product certifications and electrical ratings are clearly marked on the outside of the operator for easy reference during installation.
✓ <b>Environmentally Secure</b>	With 4/4X and IP65 ratings, our 16mm line of pilot lights are built to last and withstand dust, corrosion, ice, and rain.
✓ <b>Enhanced Safety</b>	Our field-installable IP20 terminal guards are transparent to maintain terminal visibility and they snap securely in place without the use of tools.
✓ <b>Stability</b>	All 16mm lights use a miniature bayonet base to provide reliable security for the lamps.
✓ <b>Limited Lifetime Warranty*</b>	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.
✓ <b>Guaranteed Same-Day Shipping*</b>	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.
✓ <b>Advantage Pricing</b>	At c3controls, you work directly with us—no distributors, no warehouses, no middle-men—no extra costs.

\*See c3controls Terms & Conditions

### ADVANTAGES

#### Exclusive Multi-Voltage Lights

- We've expanded the range of our multi-voltage lights. Our non-relampable multi-voltage light units that once operated from 20V to 240V, now operate at any voltage from 20V to 277V AC or DC without losing intensity, making them interchangeable across multiple applications—an exclusive of c3controls! They are available in six different colors and have the life span of 100,000 hours—that's 11.4 years!

# series 16 16MM PILOT LIGHTS

## 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
FVB120NG		95-135V	Typical (Glow)	25,000	< 5	Neon/ Green	Very Good	N/A
FVB120NR		95-135V		25,000	< 5	Neon/ Red	Very Good	N/A

\* Specify Lamp color when ordering

\*\* Designates a "Special Order" lamp that is not readily available on the open market.

### MULTI-VOLTAGE POWER CONSUMPTION & CURRENT DRAW

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

Protection Features Fused to Fail Open Yes

### DIELECTRIC STRENGTH (TERMINAL TO GROUND) 2200V for 1 Minute

### ENVIRONMENTAL RATINGS

Operators	Rated and Certified for use in 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

AWG Conductor	22 -12 CU (Copper only)
Solid Strand Conductor †	.5 ~ 4mm <sup>2</sup>
Fine Strand Conductor †	.5 ~ 4mm <sup>2</sup>
Recommended Torque	7 - 10 lb-in (0.8 - 1.0 Nm)

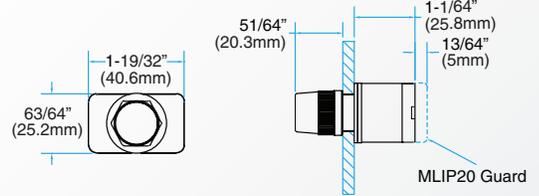
† One or two wires permitted per termination.

### ROHS COMPLIANCE For RoHS compliance documentation by product, refer to [www.c3controls.com](http://www.c3controls.com).

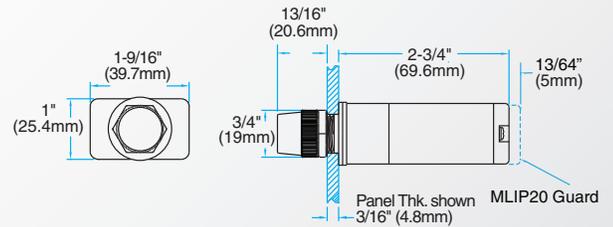
For complete ratings and detailed specifications refer to [www.c3controls.com](http://www.c3controls.com).

## DIMENSIONS

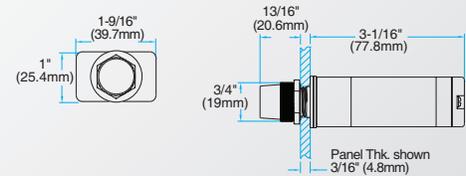
### Full Voltage/Resistor Indicating Pilot Light (Short Case)



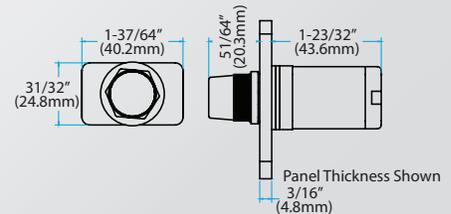
### Resistor Indicating Pilot Light (Long Case)



### Dual Input Indicating Pilot Light (Long Case)



### Multi-Voltage Pilot Light/120V & 125V Resistor Indicating Light



## CERTIFICATIONS

### Conformity to Standards:

#### Indicating Lights

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

#### Multi-Voltage Pilot Lights

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

### Certifications:

UL File #: E68568 (Guide NKCR, NKCR7)  
CSA File #: 47446-9  
CE Marked (per EU Low Voltage Directive 2006/95/EC and RoHS Directive 2011/65/EU)



Visit [www.c3controls.com](http://www.c3controls.com) to download product certifications.



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