When you need a space-saving pilot light with plenty of special features and flexibility, look to c3controls. Our 16mm pilot lights feature Lexan<sup>™</sup> lenses in a variety of colors, and are built to handle even the harshest of environments. Our 100,000-hour LED lamps with leakage protection provide bright light output with superior visibility. And we've increased the range of our Multi-Voltage LED light unit to operate at any voltage from 20V to 277V AC or DC!



	Section 19
Indicating Lights	4
Multi-Voltage Pilot Lights	6
Legend Plates	8
Accessories	10
Specifications	11
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# PROVEN



### 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)

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)

NOTE: The scope (range, description, price, specifications, dimensions, etc.) of the product featured in this section is subject to change without notice. Refer to www.c3controls.com for product updates.



Within our extensive product portfolio is our line of 16mm Pilot Lights, just one example of our superior product quality. Each product is designed and manufactured to meet the needs of the machine builder. Check out all the features of our Series 16 below!

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

√ Proven	Our 16mm operators are UL Listed, CSA Certified and CE marked meeting global standards requirements.	
✓ Quick and Simple	Front panel mounting for simple installation and lamp replacement.	
✓ Environmentally Secure	With 4/4X and IP65 ratings, our 16mm line of pilot lights are built to last and withstand dust, corrosion, ice, and rain.	
✓ Long Lasting	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!	
🗸 Light Units Run Cool	With premium engineered thermoplastics the light units run cool while providing extreme light intensity versus competitor units that run hot and produce high heat.	
✓ Heavy Duty	Polyester construction provides superior durability, corrosion resistance, moisture rejection and electrical insulation, and encases the resistors to keep heat away from the wires.	
$\checkmark$ Simple Customization	Various lens color options are available for appropriate operator interface.	
✓ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the operator for easy reference during installation.	
✓ Enhanced Safety	Our field-installable IP20 terminal guards are transparent to maintain terminal visibility and they snap securely in place without the use of tools.	
✓ Stability	All 16mm lights use a miniature bayonet base to provide reliable security for the lamps.	
✓ 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

By utilizing a c3controls pilot light that works in 20V-277V AC and DC terminals, we're able to streamline our inventory requirements because we only need one product for any application.

Mike Hughes, President • Packaged Refrigeration Systems



 Full Voltage Indicating Pilot Light
 Indicating Pilot Light
 Multi-Voltage Pilot Light

 Image: State State









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

# **Indicating Lights**



Example: To build one of our most popular Pilot Lights, the part number would be I + II + MPLL + IV + V or MFVL120LG-MPLLGN

I. LIGHT MODULE TYPE & VOLTAGE		
CODE	DESCRIPTION	LIST
F	ULL VOLTAGE (SHORT	CASE)
MFVL12	12V AC/DC	\$46.00
MFVL24	24V AC/DC	\$46.00
MFVL120	120V AC/DC	\$46.00
RESISTOR (CASE SIZE VARIES)		
MRL120*	120V AC/DC	\$50.00
MRL125D*	125V AC/DC	\$50.00
<b>MRL140</b>	140V DC	\$50.00
MRL240	240V AC/DC	\$50.00
*NOTE: MRL120 & MRL125D have grey housings.		

II. LED LAMP COLOR		
CODE	COLOR	LIST
LA	Amber	\$18.00
LB	Blue	\$18.00
LG	Green	\$18.00
LR	Red	\$18.00
LW	White	\$18.00
NL	No Lamp	-\$ 1.80

-\$1.80 No Lamp

	III. LENS TYPE	
CODE	DESCRIPTION LIST	
MPLL	Miniature Pilot Light Lens \$ 6.0	)
	IV. LENS COLOR	
CODE	COLOR	
AR	Amber	_
BE	Blue	

CR

GN

RD

WE

Clear

Green

White

Red

V. OPTIONS		
CODE	DESCRIPTION	LIST
(Blank)	None	_
IP20	IP20 Guard	\$ 4.00

SEE PAGE 10 FOR LAMP REPLACEMENT CHART AND PAGE 11 FOR LAMP TECHNICAL DATA.



AVAILABLE LENS COLORS FOR INDICATING PILOT LIGHTS



# **16MM INDICATING LIGHTS**

Our 16mm Indicating Lights feature polyester construction for superior corrosion resistance, moisture rejection and electrical insulation. All units are supplied with #6 terminal screws with self-lifting captive wire clamps to accommodate #22 through two #12 AWG wires (0.5 - 4mm<sup>2</sup>) per terminal. Nickel plated clamp rings are ideal for corrosive environments. All units mount in a round 5/8" (16mm) hole and are directly interchangeable with competitor units. Units are available in different case depths for easy installation in your control panel – whatever the dimensions. All c3controls 16mm operators are UL Listed and are rated Type 4/4X as standard for watertight and corrosion resistance. In addition, light units are also listed for Type 1, 2, 3, 3R, 12, 13 and IP65.

Product features include:

• All lights use miniature bayonet base lamps to provide reliable lamp secureness.

# UNIQUE PRODUCT FEATURES

- 1. Thin, compact, insulating polyester housing provides added protection for those tight fitting spaces.
- 2. Premium engineered thermoplastics keep the light units running cool while providing extreme light intensity versus competitor units that run hot and produce high heat.
- **3.** Heavy-duty brass current carrying components for improved conductivity and corrosion resistance.
- 4. High-tech LED lamps offer the latest and most current technology providing leakage protection, great light output and increased visibility for side views *and lasts up to 100,000 hours!*
- **5.** Front of panel lamp change without removing device from panel.
- Our rugged Lexan<sup>™</sup> lenses can resist high impact for reliable performance in most environments – even in high ambient temperatures.

7. Enhanced safety with field installable IP20 terminal guards are transparent

# Some of Our Popular Configurations:

16MM INDICATING LIGHTS		
DESCRIPTION	LIST	
120V Resistor w/Red LED and Red Lens	\$74.00	
120V Resistor w/Amber LED and Amber Lens	\$74.00	
120V Full Voltage w/Green LED and Green Lens	\$70.00	
	DESCRIPTION 120V Resistor w/Red LED and Red Lens 120V Resistor w/Amber LED and Amber Lens	

# 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.

For convenient terminal marking our IP20 terminal guards utilize Series WTB2 markers (see Section 22 Page 32), simplifying wiring and troubleshooting.









# Some of Our Popular Configurations:

16MM MULTI-VOLTAGE PILOT LIGHTS		
DESCRIPTION	LIST	
Multi-Voltage 20-277V, Non-Relampable w/ White LED and Amber Lens	\$82.00	
Multi-Voltage 20-277V, Non-Relampable w/ White LED and Green Lens	\$82.00	
Multi-Voltage 20-277V, Non-Relampable w/ White LED and Red Lens	\$82.00	
	DESCRIPTION Multi-Voltage 20-277V, Non-Relampable w/ White LED and Amber Lens Multi-Voltage 20-277V, Non-Relampable w/ White LED and Green Lens	

### AVAILABLE LENS COLORS FOR MULTI-VOLTAGE PILOT LIGHTS





# 16MM MULTI-VOLTAGE PILOT LIGHTS

Our 16mm Multi-Voltage Pilot Lights feature polyester construction for superior corrosion resistance, moisture rejection and electrical insulation. All units are supplied with #6 terminal screws with self-lifting captive wire clamps to accommodate #22 through two #12 AWG wires (0.5 - 4mm<sup>2</sup>) per terminal. Nickel plated clamp rings are ideal for corrosive environments. All units mount in a round 5/8" (16mm) hole and are directly interchangeable with competitor units. The compact size means you can put more into a smaller panel, lowering your cost while boosting the functionality of your machine.

Product features include:

- UL Listed Type 1, 2, 3, 3R, 4/4X, 12, 13 and IP65 ratings for the most demanding applications—including wash-downs and corrosive environments.
- Heavy-duty brass current carrying components for improved conductivity and corrosion resistance.
- Bi-polar design means functionality is independent of which lead is connected to each terminal.
- Rugged Lexan<sup>™</sup> lenses resist high impact for reliable perfomance in most environments—even in high ambient temperatures.
- Superior performance even in applications with shock and vibration.
- 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.

For convenient terminal marking our IP20 guards utilize Series WTB2 markers (see Section 22 Page 32), 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. 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 1-23/32" (43.6mm).
- 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.



**Exclusive!** 





# 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.

### **Legend Plates**



1. LEGEND PLATE ITTPE		
CODE	DESCRIPTION	LIST
MLLP	Standard 2"h x 2"w	\$ 5.80
MLLPH	Horizontal 1"h x 2"w	\$ 5.80
MLLPV	Vertical 2"h x 1"w	\$ 5.80
Legend plates feature 4 lines of text with approximately 7 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

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

#### LEGEND DESIGNATION *III.* DESCRIPTION CODE (BLANK) 00 01 AUT0 02 CLOSE MOTOR RUN 26 12 **OFF** 13 0N 14 OPEN 27 **OVERLOAD** 15 POWER OFF 16 POWER ON 18 RESET 20 RUN 24 TEST

	IV. ADHESIVE BACK
CODE	DESCRIPTION
(Blank)	No Adhesive Back
A	Adhesive Back

MOTOF

POWER

### **N**OT 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 9 for details.

29

TRIP

While our standard legend plates are available for same day shipping, our special and custom legend plates are not.





### SY TO EGEND

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

# **Special Legend Plates**

- SP – IV |||

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				
MLLP	Standard 2"h x 2"w	\$ 5.80				
MLLPH	Horizontal 1"h x 2"w	\$ 5.80				
MLLPV	Vertical 2"h x 1"w	\$ 5.80				
Legend plates feature 4 lines of text with approximately 7 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					
DISCOUNT							

III. LEGEND DESIGNATION						
CODE	DESCRIPTION	LIST				
SP	Special Legend	\$14.00				
	IV. ADHESIVE BAC	K				
CODE	DESCRIPTION					
(Blank)	No Adhesive Back					
A	Adhesive Back					

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

FAILUR

To order, submit your drawing to:

c3controls Attn: Customer First PO Box 496 Beaver, PA 15009

Fax: 724.775.5283

Mail:

**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 12.

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 MLLP-CP (no adhesive back) or MLLP-CP-A (adhesive back).
- 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 724.775.5283 Fax: Email: legendplates@c3controls.com ACUUM

RESET

# LED REPLACEMENT LAMPS

c3controls miniature bayonet base lamps come in a variety of voltage and color options for direct interchangeability to help in choosing the best lamp for your installation. Refer to the chart below to determine the appropriate replacement lamp based on your operator voltage. For lamp technical data, see page 11.



<b>16MM REPLACEMENT LAMP REFERENCE CHART (FOR REFERENCE ONLY - USE CHART ABOVE TO ORDER)</b>							
<b>OPERATOR CODE</b>	<b>OPERATOR VOLTAGE</b>	LED (ALL COLORS)	INCANDESCENT	NEON			
MFVL12	Full Voltage 12V AC/DC	LED12	FVB12				
MFVL24	Full Voltage 24V AC/DC	LED24	FVB24				
MFVL120	Full Voltage 120V AC/DC	LED130	FVB120	FVB120NG or FVB120NR			
MRL120L	Resistor 120V AC/DC*	LED24		_			
MRL125DL	Resistor 125V DC*	LED24					
MRL140DL	Resistor 140V DC*	LED24					
MRL240L	Resistor 240V AC/DC*	LED24					
MRTL6	Dual Input 6V AC/DC	LED6	FVB6				
MRTL12	Dual Input 12V AC/DC	LED12	FVB12	_			
MRTL24	Dual Input 24V AC/DC	LED24	FVB24	_			
MRTL120	Dual Input 120V AC/DC	LED130	FVB55	_			





IP20 TERMINAL GUARD

Our IP20 terminal guard protects 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: For factory installed guards, refer to the operator page to determine the appropriate part number. For convenient terminal marking our IP20 terminal guards utilize Series WTB2 markers (see Section 22 Page 32), simplifying wiring and troubleshooting.



# **SPECIFICATIONS:**

			16N	1M PILOT LIGH	13			
RICAL RATINGS	Industry Number	Rated Volts	Lumens (MSCD)	Design Life (Hrs.)	Current Draw (mA)	Lamp Type	Shock & Vibration	Leakage Protection
LED12		12V†	Varies w/ Color		<20			4 mA
LED24	**	24V†	2000 mcd	100,000	<20	LED*	Excellent	4 mA
LED130		120/130V†	Typical		<10	1		2 mA
MULTI-VOLTAGE	POWER CONSU	<b>WPTION &amp; CURRE</b>	NT DRAW			•	•	
	System Voltage		AC Current Draw (mA	) DC	<b>Current Draw</b>	(mA)	Power Consum	ption (W)
	24V		21		20			
	48V		17		7			
	120V		3.5		—			
	125V		—		3		AC: <1 [	DC: <1/2
	240V		2.5		_			
	250V		_		2			
	277V		2.5		—			
PROTECTION FEA								
Fused to I	Fail Open			Ye	es			
		UNITO						
DIELECTRIC STRI	ENGTH	UNITS			00001//			
DIELECTRIC STRI (TERMINAL TO G		UNIIS			2200V for	1 Minute		
(TERMINAL TO G Ronmental Rati	ROUND)							
<b>(TERMINAL TO G</b> <b>RONMENTAL RATI</b> Operators	ROUND) INGS		Ra	ted and Certified for u	se in Type 1, 2,	3, 3R, 4/4X, 12 & 13	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Tempo	ROUND) INGS erature	°F/°C	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131	3, 3R, 4/4X, 12 & 13 / -40 to +55	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Tempor Storage Tempera	ROUND) INGS erature ature	°F/°C °F/°C	Ra	ted and Certified for u	se in Type 1, 2,	3, 3R, 4/4X, 12 & 13 / -40 to +55	3, and IP65	
CTERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temperation INAL & WIRING	ROUND) INGS erature ature CONSIDERATION	°F/°C °F/°C	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper IINAL & WIRING AWG Conductor	ROUND) INGS erature ature CONSIDERATION	°F/°C °F/°C	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only)	3, and IP65	
CTERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper IINAL & WIRING AWG Conductor Solid Strand Cor	ROUND) INGS erature ature CONSIDERATION - nductor†	°F / °C °F / °C	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper INAL & WIRING AWG Conductor Solid Strand Cor Fine Strand Con	ROUND) INGS erature ature CONSIDERATION - nductor† ductor†	°F/°C °F/°C mm² mm²	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4	3, and IP65	
CTERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper IINAL & WIRING AWG Conductor Solid Strand Cor	ROUND) INGS erature ature CONSIDERATION - nductor† ductor†	°F/°C °F/°C °F/°C mm² mm² Lb-in.	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 7 -	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 4 - 10	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Tempers IINAL & WIRING AWG Conductor Solid Strand Con Fine Strand Con Recommended T	ROUND) INGS erature ature CONSIDERATION - nductor† ductor† Torque	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 4 - 10	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Tempers IINAL & WIRING AWG Conductor Solid Strand Con Fine Strand Con Recommended T or Two wires per	ROUND) INGS erature ature CONSIDERATION - nductor† ductor† Torque	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm	Ra	ted and Certified for u	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 7 -	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 4 - 10	3, and IP65	
(TERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper IINAL & WIRING AWG Conductor Solid Strand Con Fine Strand Con Recommended 1 or Two wires per FIRLS	ROUND) INGS erature ature CONSIDERATION - - - - - - - - - - - - - - - - - - -	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm			se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 7 - 0.8 -	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 10 1.0		
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ITERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper Storage Temper AWG Conductor Solid Strand Con Fine Strand Con Recommended T or Two wires per ERIALS Operator Housin Structural Parts Terminal Suppor Pilot Light Lens Seals	ROUND) INGS erature ature CONSIDERATION - nductor† ductor† Torque rmitted per term ngs	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm	TH TH	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste High Impact Po	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 .7 0.8 - r and Polyester r and Polyester	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 10 - 10 - 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili JV Stabilized for ou g Gaskets	ized for outdoor use) ized for outdoor use) ized for outdoor use)	
ITERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper INAL & WIRING AWG Conductor Solid Strand Con Fine Strand Con Recommended T or Two wires per RIALS Operator Housin Structural Parts Terminal Suppor Pilot Light Lens Seals Front Mounting N	ROUND) INGS erature ature ature CONSIDERATION	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm	TH TH	nermoplastic Polyester nermoplastic Polyester nermoplastic Polyester High Impact Polyester High Impact Polyester	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 .7 0.8 - r and Polyester r and Polyester r and Polyester r and Polyester Brass (Plated	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 	ized for outdoor use) ized for outdoor use) ized for outdoor use)	
ITERMINAL TO G RONMENTAL RATI Operators Operating Temper Storage Temper Storage Temper AWG Conductor Solid Strand Con Fine Strand Con Recommended T or Two wires per ERIALS Operator Housin Structural Parts Terminal Suppor Pilot Light Lens Seals	ROUND) INGS erature ature ature CONSIDERATION - Inductor† ductor† Torque rmitted per term ngs rts Nut/Clamp Ring ns	°F/°C °F/°C °F/°C mm² mm² Lb-in. Nm	TH TH	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste High Impact Polyeste High Impact Polyeste	se in Type 1, 2, -40 to +131 -40 to +185 22-12 CU (C .5 .5 .5 .7 .0.8 - r and Polyester r and Polyester r and Polyester r and Polyester Brass (Plated Brass (Plated	3, 3R, 4/4X, 12 & 13 / -40 to +55 / -40 to +85 	ized for outdoor use) ized for outdoor use) ized for outdoor use)	



### FULL VOLTAGE/RESISTOR INDICATING PILOT LIGHT (SHORT CASE)



# MULTI-VOLTAGE AND RESISTOR 120V & 125V INDICATING PILOT LIGHT

Non-Relampable & Relampable



# MOUNTING HOLE PATTERN



_	_	-	_		_	_	_	_	_	_	_
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		 -						-1	**	_	_

PANEL THICKNESS IN DECIMALS		ETS NEEDED § 1/16" (1.6mm)
less than .06	1	2
.06 – .120	1	1
.120 – .180	1	0
.180 – .240	0	2
.240 – .300	0	1
NOTE: Remove one 1/16" (1 legend plate.	.6mm) gasket w	hen using a

Mounting Hole in Panel - 5/8" (16mm).
Fully-assembled operators come standard with one 3/16" (4.8mm) and two 1/16" (1.6mm) gaskets.

# RESISTOR 140V & 240V INDICATING PILOT LIGHT (LONG CASE)



# LEGEND PLATE TEMPLATES

### STANDARD 2" x 2" (MLLP)



### HORIZONTAL 1" X 2" (MLLPH)



### VERTICAL 2" x 1" (MLLPV)

