16MM PILOT LIGHTS



Section 19

When you need a space-saving pilot light with plenty of special features and flexibility, look to c3controls. Our 16mm pilot lights feature Lexan™ 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!



Indicating Lights	4
Multi-Voltage Pilot Lights	6
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Accessories	10
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PROVEN









Conformity to Standards: INDICATING LIGHTS

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/ELI)

UL File #: E68568 (Guide NKCR, NKCR7)

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

Visit www.c3controls.com to download product certifications.



16MM PILOT LIGHTS

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.			
✓ 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

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Indicating Pilot Light



Multi-Voltage Pilot Light



UNIQUE PRODUCT LINE FEATURES

EXCLUSIVE MULTI-VOLTAGE LIGHTS



modules—the only U.S. engineered multivoltage light in the industry!—operate at any voltage from 20V to 277V AC or DC without losing intensity.

WIDE RANGE OF APPLICATIONS



Multiple light designs in full voltage, resistor, and multi-voltage to cover a broad variety of applications up to 600V.

QUALITY MATERIALS



c3controls selects the highest quality raw materials to ensure our products outlast the competition, including Lexan™ plastic for our lenses—improving visibility and resistance to high impact for reliable performance, even in high ambient temperatures.

FIND IT FAST

16mm Pilot Lights



- Certifications
- Specifications
- **Dimension Drawings**
- Installation Instructions
- Easy to Buy

www.c3controls.com



IT'S EASY TO BUILD YOUR OWN PILOT LIGHT

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	
FULL 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	
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

III. LENS TYPE		
CODE	DESCRIPTION	LIST
MPLL	Miniature Pilot Light Lens	\$ 6.00

IV. LENS COLOR		
CODE	COLOR	
AR	Amber	
BE	Blue	
CR	Clear	
GN	Green	
RD	Red	
WE	White	

	V. OPTIONS		
ESCRIPTION	LIST		
one			
20 Guard	\$ 4.00		
	one		

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 - 4mm²) 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.



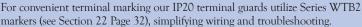
• All lights use miniature bayonet base lamps to provide reliable lamp secureness.







- 1. Thin, compact, insulating polyester housing provides added protection for those tight fitting spaces.
- Premium engineered thermoplastics keep the light units running cool while providing extreme light intensity versus competitor units that run hot and produce high heat.
- 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™ 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 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.





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	





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

20-277V Multi-Voltage Pilot Lights

- MPLL Ш

Example: To build one of our most popular Pilot Lights, the part number would be I + II + III + MPLL + V + VI or 16MV20-277DLW-MPLLGN



I. OPERATOR TYPE			
CODE	DESCRIPTION	LIST	
	Non-Relampable Multi-Voltage Pilot Light	\$76.00	

1	I. LED LAMP FUNCTION
CODE	DESCRIPTION
D	Standard

III. LED LAMP COLOR		
CODE	DESCRIPTION	LIST
LW	White	_

IV. LENS TYPE		
CODE	DESCRIPTION	LIST
MPLL	Miniature Pilot Light Lens	\$ 6.00

c3controls LED lamps last 100,000 hours — that's 11.4 years!

V. LENS COLOR	
CODE	DESCRIPTION
AR	Amber
BE	Blue
CR	Clear
GN	Green
RD	Red
WE	White

	VI. 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.

Some of Our Popular Configurations:

		16MM MULTI-VOLTAGE PILOT LIGHTS	
ſ	PART NUMBER	DESCRIPTION	LIST
١	16MV20-277DLW-MPLLAR	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Amber Lens	\$82.00
ı	16MV20-277DLW-MPLLGN	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Green Lens	\$82.00
١	16MV20-277DLW-MPLLRD	Multi-Voltage 20-277V, Non-Relampable w/ White LED and Red Lens	\$82.00
н			

AVAILABLE LENS COLORS FOR MULTI-VOLTAGE PILOT LIGHTS



724.775.7926 :: www.c3controls.com **Section 19 | 6**

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 - 4mm²) 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™ 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.





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



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

	MOTOR	POWER ON
V		D

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

II	I. LEGEND DESIGNATION
CODE	DESCRIPTION
00	(BLANK)
01	AUT0
02	CLOSE
26	MOTOR RUN
12	0FF
13	ON
14	OPEN
27	OVERLOAD
15	POWER OFF
16	POWER ON
18	RESET
20	RUN
24	TEST
29	TRIP

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

Not 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.

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



RESET

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

Special Legend Plates



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
Logond pla	too footure 4 lines of toxt with	

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



III. LEGEND DESIGNATION		
CODE	DESCRIPTION	LIST
SP	Special Legend	\$14.00

IV. ADHESIVE BACK

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.

To order, submit your drawing to:

Mail: c3controls

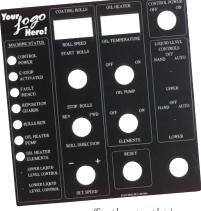
Attn: Customer First PO Box 496 Beaver, PA 15009

Fax: 724.775.5283

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

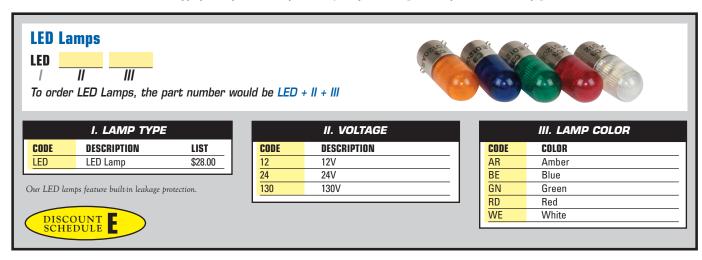
> Attn: Customer First PO Box 496 Beaver, PA 15009

724.775.5283 Fax:

Email: legendplates@c3controls.com



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.



PERATOR CODE	OPERATOR VOLTAGE	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	_	_
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	_



Lamp Removal Tool





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.

CODE	FOR USE WITH	LIST
MLIP20	All 16mm Light Modules	\$ 4.00



\$ 8.00

LRT

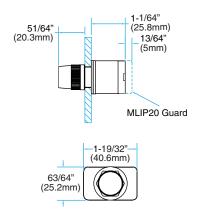


SPECIFICATIONS:

	16MM PILOT LIGHTS							
TRICAL RATINGS Lamp	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]		2 mA
MULTI-VOLTAGI	E POWER CONSUI	VIPTION & CURRE	NT DRAW					
	System Voltage		AC Current Draw (mA) DC	Current Draw	(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 FI								
	Fail Open color when ord			Y	es			
DIELECTRIC ST	RENGTH	UNITS			00001/	4.84		
(TERMINAL TO	GROUND)				2200V for	1 Minute		
RONMENTAL RA	TIMES							
	IINUO							
Operators			Ra	ted and Certified for u	- ,,		3, and IP65	
Operating Tem	perature	°F/°C	Ra	ted and Certified for u	-40 to +131	/ -40 to +55	3, and IP65	
Operating Temperating Temperating	perature erature	°F/°C	Ra	ted and Certified for u	- ,,	/ -40 to +55	3, and IP65	
Operating Tempe Storage Tempe	perature rature CONSIDERATION	°F/°C	Ra	ted and Certified for u	-40 to +131 -40 to +185	/ -40 to +55 / -40 to +85	3, and IP65	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conductor	perature erature CONSIDERATION or	°F/°C	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C	/ -40 to +55 / -40 to +85 opper Only)	3, and IP65	
Operating Tempostorage Tempes IINAL & WIRING AWG Conductor Solid Strand Co	perature erature G CONSIDERATION or onductor†	°F/°C	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C	/ -40 to +55 / -40 to +85 opper Only) ~ 4	3, and IP65	
Operating Tempostorage Tempes IINAL & WIRING AWG Conductor Solid Strand Co Fine Strand Co	perature orature is CONSIDERATION or onductor† inductor†	°F/°C mm² mm²	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C .5	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4	3, and IP65	
Operating Tempostorage Temperating AWG Conductor Solid Strand Conductors	perature orature is CONSIDERATION or onductor† inductor†	°F/°C mm² mm² Lb-in.	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C .5 .5	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10	3, and IP65	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conducto Solid Strand Co Fine Strand Co Recommended	perature prature CONSIDERATION or onductor† nductor† Torque	mm² mm² Lb-in.	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C .5 .5	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4	3, and IP65	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conductor Solid Strand Cor Fine Strand Cor Recommended or Two wires per	perature orature is CONSIDERATION or onductor† inductor†	mm² mm² Lb-in.	Ra	ted and Certified for u	-40 to +131 -40 to +185 22-12 CU (C .5 .5	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10	3, and IP65	
Operating Tempostorage Temposto	perature prature CONSIDERATION productor† nductor† Torque ermitted per term	mm² mm² Lb-in.			-40 to +131 -40 to +185 22-12 CU (C .5 .5 .7 0.8	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10		
Operating Tempostorage Tempostorage Tempostorage Tempostorage AWG Conductorage Solid Strand Confine Strand Conf	perature prature CONSIDERATION or onductor† nductor† Torque ermitted per term	mm² mm² Lb-in.	Tł	nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 .7 0.8	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10 1.0	zed for outdoor use)	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conductor Solid Strand Co Fine Strand Co Recommended or Two wires per RIALS Operator House Structural Part	perature prature CONSIDERATION or onductor† nductor† Torque ermitted per term ings s	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 .7 0.8	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10 1.0 Blends (UV Stabili	zed for outdoor use) zed for outdoor use)	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conductor Solid Strand Co Fine Strand Co Recommended Or Two wires pre RIALS Operator Housi Structural Part Terminal Support	perature prature CONSIDERATION or Inductor† Inductor† Torque Permitted per term ings s ports	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 .7 0.8 r and Polyester r and Polyester r and Polyester	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili	zed for outdoor use) zed for outdoor use) zed for outdoor use) zed for outdoor use)	
Operating Tempe Storage Tempe IINAL & WIRING AWG Conductor Solid Strand Co Fine Strand Co Recommended or Two wires per RIALS Operator House Structural Part	perature prature CONSIDERATION or Inductor† Inductor† Torque Permitted per term ings s ports	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 7- 0.8 r and Polyester r and Polyester r and Polyester	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10 - 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili	zed for outdoor use) zed for outdoor use) zed for outdoor use) zed for outdoor use)	
Operating Tempostorage Temposto	perature erature GCONSIDERATION or onductor† nductor† Torque ermitted per term ings s orts	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 7- 0.8 r and Polyester	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 - 10 - 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili JV Stabilized for ou	zed for outdoor use) zed for outdoor use) zed for outdoor use) zed for outdoor use)	
Operating Tempostorage Temposto	perature erature GCONSIDERATION or onductor† nductor† Torque ermitted per term ings s orts GCONSIDERATION or onductor†	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste	-40 to +131 -40 to +185 22-12 CU (C .5 .5 7- 0.8 r and Polyester r and Polyester r and Polyester	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 10 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili JV Stabilized for oue Gaskets and Unplated)	zed for outdoor use) zed for outdoor use) zed for outdoor use) zed for outdoor use)	
Operating Temple Storage Temple AWG Conductor Solid Strand Confine Stractural Part Terminal Support Pilot Light Lens Seals	perature erature GCONSIDERATION or onductor† nductor† Torque ermitted per term ings s orts orts GCONSIDERATION or onductor†	mm² mm² Lb-in.	TI TI	nermoplastic Polyeste nermoplastic Polyeste nermoplastic Polyeste High Impact P	-40 to +131 -40 to +185 22-12 CU (C .5 .5 7- 0.8 r and Polyester r and Polyester r and Polyester r and Polyester s and Polye	/ -40 to +55 / -40 to +85 opper Only) ~ 4 ~ 4 ~ 10 1.0 Blends (UV Stabili Blends (UV Stabili Blends (UV Stabili JV Stabilized for oue Gaskets and Unplated)	zed for outdoor use) zed for outdoor use) zed for outdoor use) zed for outdoor use)	

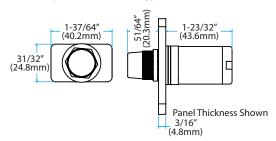


FULL VOLTAGE/RESISTOR INDICATING PILOT LIGHT (SHORT CASE)

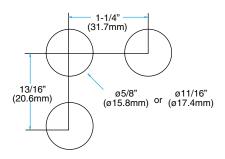


120V & 125V RESISTOR/

Non-Relampable & Relampable



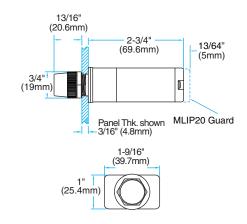
MOUNTING HOLE PATTERN



MOUNTING GASKETS					
PANEL THICKNESS IN DECIMALS	# OF GASKETS NEEDED 3/16" & 1/16" (4.8mm) (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" legend plate.	(1.6mm) gasket w	hen using a			

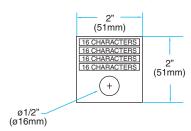
- Mounting Hole in Panel 5/8" (16mm).
- Fully-assembled operators come standard with one 3/16" (4.8mm) and two 1/16" (1.6mm) gaskets.

RESISTOR INDICATING PILOT LIGHT (LONG CASE)

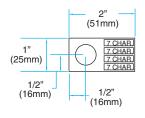


LEGEND PLATE TEMPLATES

STANDARD 2" x 2" (MLLP)



HORIZONTAL 1" x 2" (MLLPH)



VERTICAL 2" x 1" (MLLPV)

