Ø8 mm panel mount LED indicators

DISTINCTIVE FEATURES

5mm colored diffused epoxy lens or 5 mm water clear super bright LEDs

Prominent, recessed and flush bezel styles

(2.8 x 0.8) solder lug/faston terminals, pins or (200 mm long) wire terminations (2.0 x 0.5) solder lug/faston terminals on tri-color versions



140-08-2001

ENVIRONMENTAL SPECIFICATIONS

• IP67 sealing option (EN60529)

• Operating & Storage Temperature Range: Rear plastic body: -30 °C to +65 °C (-22 °F to +149 °F) Rear epoxy body: -40 °C to +85 °C (-40 °F to +185 °F)



GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 20 to 25 cNm
- Maximum panel thickness 7 mm

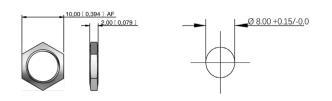


MATERIALS

- Plated brass bezel finished in bright chrome, black or satin grey and moulded polycarbonate rear body
- Stainless Steel 316L bezel in flush version only







The company reserves the right to change specifications without notice.

All LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal and subject to variations.





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(4)

) ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY						
LED COMPONENT SPECIFICATIONS						
	Prominent and Recessed	Flush	Forward Voltage			
HE Red	80 mcd	8 mcd	2.0 V			
Green	60 mcd	6 mcd	2.2 V			
Yellow	50 mcd	6 mcd	2.1 V			
Blue	1,600 mcd	50 mcd	3.3 V			
White	1,600 mcd	500 mcd	3.3 V			
Orange	60 mcd	110 mcd	2.2 V			
Bi-color (Typical) (Red/Green)	14/30 mcd	15/10 mcd	2.0V/2.2 V			
Tri-color (Typical) (Red/Green/Yellow)	60/15/13 mcd	15/10/6 mcd	2.0 V/2.2 V/2.1 V			

Bi-color - The color is changed by reversing the polarity of the supply voltage. Tri-color - The indicator has red and green LEDs, when both connected yellow is produced.

Voltage	Operating Voltage	Operating Current	
	(Min to Max)	(Typical All Types)	
02 (No Resistor)*	1.8 to 3.3 VDC	20 mA max	
6 VDC	5.4 to 6.6 VDC	20 mA	
12 VDC	10.8 to 13.2 VDC	20 mA	
24 VDC	21.6 to 26.4 VDC	20 mA	
28 VDC	25.2 to 30.8 VDC	20 mA	
110 VAC	99 to 121 VAC	6 mA	
220 VAC	207 to 235 VAC	3 mA	

* Customer to supply resistor for desired operating current.

SUPER BRIGHT LED INTENSITY

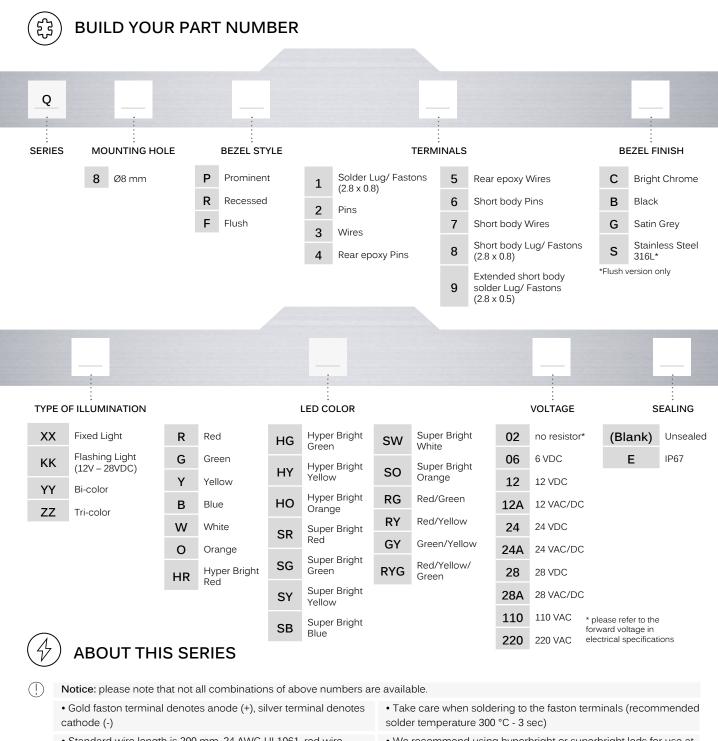
LED COMPONENT SPECIFICATIONS					
	Prominent and Recessed	Flush	Forward Voltage		
HE Red	5,000 mcd	1,300 mcd	2.2 V		
Green	10,000 mcd	1,200 mcd	3.3 V		
Yellow	4,000 mcd	350 mcd	2.0 V		
Blue	2,200 mcd	280 mcd	3.3 V		
White	2,500 mcd	950 mcd	3.3 V		
Orange	4,000 mcd	500 mcd	2.2 V		

HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS					
	Prominent and Recessed	Flush	Forward Voltage		
HE Red	6,000 mcd	980 mcd	2.2 V		
Green	1,900 mcd	300 mcd	3.3 V		
Yellow	1,600 mcd	250 mcd	2.0 V		
Orange	2,400 mcd	110 mcd	2.2 V		

- The operating voltage must not be exceeded by more that 10% as this will result in reduced life expectancy
- Luminous intensity is measured at 20 mA on a discrete led unless otherwise stated.
- Luminous intensities and color shades of white LEDs may vary within a batch.
- Luminous intensity will be reduced with lower operating current.

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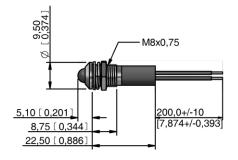
- Standard wire length is 200 mm, 24 AWG UL1061, red wire denotes anode (+), black wire denotes cathode (-) for other wire lengths consult APEM
- 110 VAC and 220 VAC, only available with terminal options 1, 3 and 5 $\,$
- Terminal options 2,4,6,8 & 9 are only available without integral resistor. Tri-color not available with terminal 9
- Bi-color leds, by connecting the gold faston (+) one color is produced, by reversing the supply voltage another color is produced bi-colors are available up to 28 VDC [AC products not available]
- \bullet We recommend using hyperbright or superbright leds for use at 110 VAC and 220 VAC
- Mains voltage product is not recommended for use on 3 phase appliances
- The tri-color led has red and green leds when both are connected yellow is produced
- \bullet Standard tri-color faston terminals are two anodes (+) and one cathode (-)
- \bullet Tri-color wires are one red (+) and one green (+) anode and one black (-) cathode
- Tri-color pins are center (-) cathode, shortest (+) anode pin green, longest (+) anode pin red

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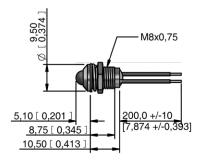
PROMINENT BEZEL



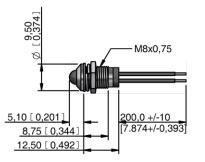
WIRES



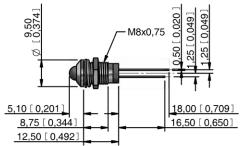
REAR EPOXY WIRES



SHORT BODY WIRES



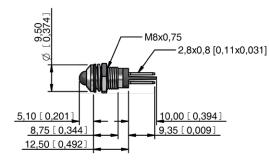
SOLDER LUG/FASTON 9,50 0,374] M8x0,75 2,8x0,8[0,11x0,031] 5,10 [0,201] 10,00 [0,394] 9,35 [0,368] <u>8,75 [0,344</u>] 28,75 [1,132] PINS 9,50 0,374] 0,020 ,25 [0,049] 25 [0,049 M8x0,75 50 6 5,10 [0,201] 8,00 [0,315] 8,75 [0,344 6,50 [0,256] 22,50 [0,886 REAR EPOXY PINS 9,50 0,020 0.049 0.049 M8x0.75 50 25 3 5,10 [0,201] 20,88 [0,822] 8,75 [0,344 19,38 [0,763] 10,50 [0,413] SHORT BODY PINS



APEM

Ø8 mm panel mount LED indicators

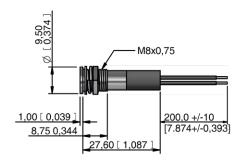




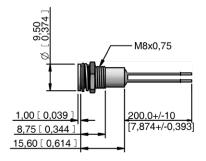
FLUSH BEZEL

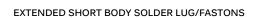


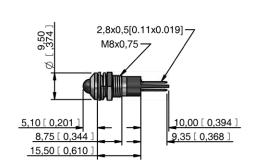
WIRES



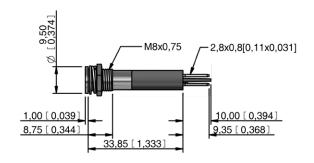
REAR EPOXY WIRES



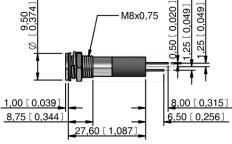




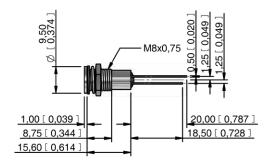
SOLDER LUG/FASTON



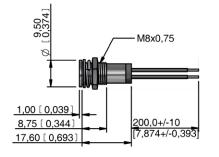




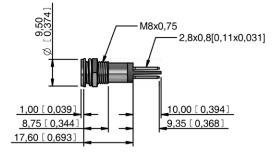
REAR EPOXY PINS

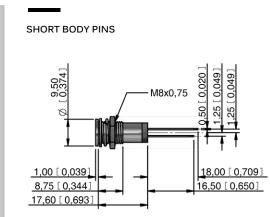


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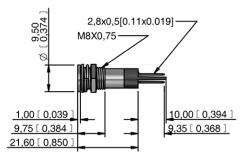


SHORT BODY SOLDER LUG/FASTONS





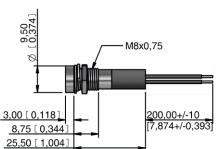
EXTENDED SHORT BODY SOLDER LUG/FASTONS



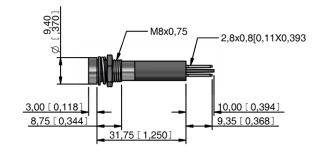
RECESSED BEZEL



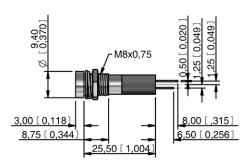
WIRES



SOLDER LUG/FASTON

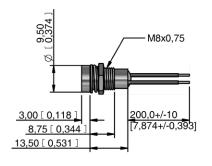


PINS

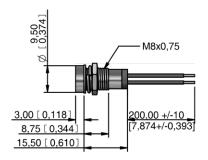


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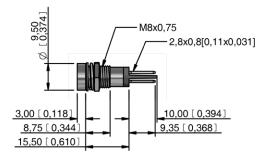
RECESSED BEZEL (CONTINUED) REAR EPOXY WIRES



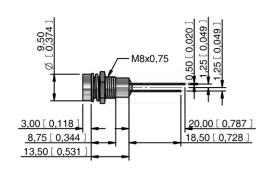
SHORT BODY WIRES



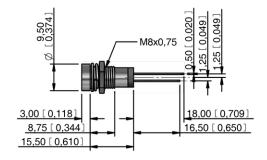
SHORT BODY SOLDER LUG/FASTONS



REAR EPOXY PINS



SHORT BODY PINS



EXTENDED SHORT BODY SOLDER LUG/FASTONS

