Ø8 mm panel mount LED indicators

) DISTINCTIVE FEATURES

5 mm 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



MD-08-205

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

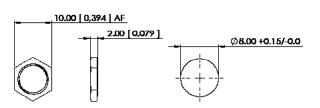
- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 20 to 25 cNm
- Maximum panel thickness 7 mm
- Insulation resistance : 4,000 $\text{M}\Omega$ at 500 VDC

MATERIALS

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



MOUNTING



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
01711107110		

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	150 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)	Red: 150 mcd Green: 100 mcd	15/10/6 mcd	Red: 2.1 V Green: 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.

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	3,000 mcd	3.3 V
Yellow	4,000 mcd	1120 mcd	2.1 V
Blue	2,200 mcd	280 mcd	3.3 V
White	2,500 mcd	1560 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	750 mcd	3.3 V
Yellow	1,600 mcd	1560 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.

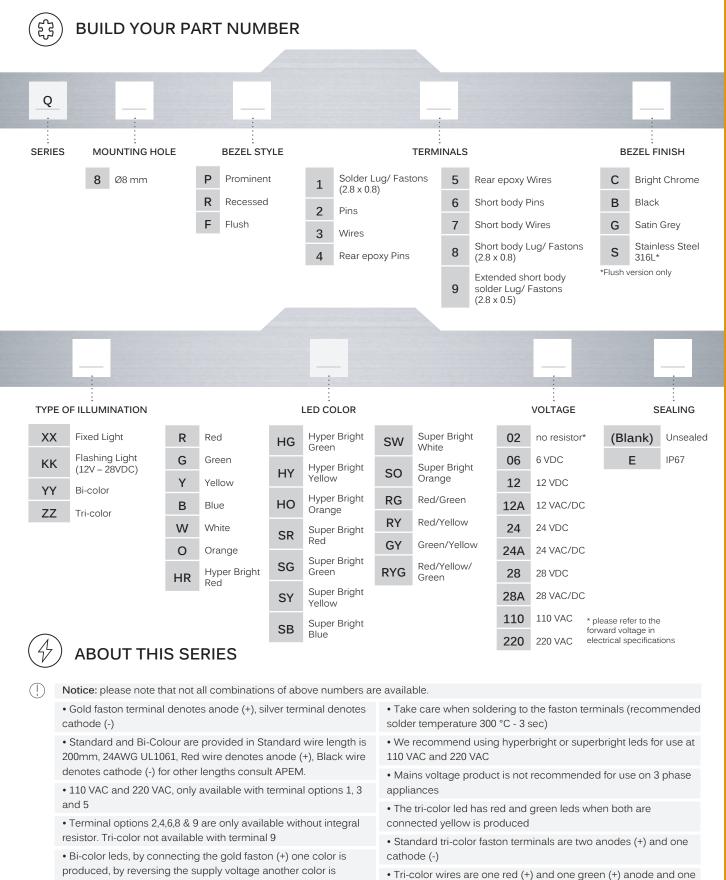
Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
02 (No Resistor)*	1.8 to 3.3 VDC	20 mA max
6 VDC	5.4 to 6.6 VDC	20 mA
12 VDC	10.8 to 13.2 VDC	20 mA
24 VDC	21.6 to 26.4 VDC	20 mA
28 VDC	25.2 to 30.8 VDC	20 mA
110 VAC	99 to 121 VAC	6 mA
220 VAC	207 to 235 VAC	3 mA

* Customer to supply resistor for desired operating current.

ADDITIONNAL INFORMATION ON LED COMPONENTS

- Recommended usage:
 - Standard: Homogenous light output that is good for indoor applications.
 - Hyper Bright: Homogenous light output that is good for outside viewing and is daylight visible.
 - Super Bright: A water clear LED that is good for long distance viewing and is daylight visible.

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produced, by reversing the supply voltage another color is produced – bi-colors are available up to 28 VDC [AC products not available]

black (-) cathode
Tri-color pins are center (-) cathode, shortest (+) anode pin green, longest (+) anode pin red

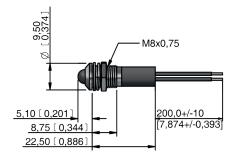
A P E N

Ø8 mm panel mount LED indicators

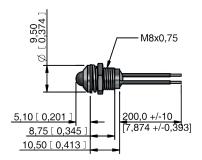
PROMINENT BEZEL



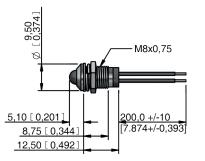
WIRES



REAR EPOXY WIRES



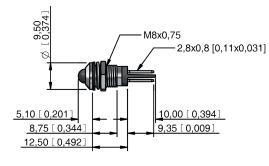
SHORT BODY WIRES



SOLDER LUG/FASTON 9,50 0,374] M8x0,75 -2,8x0,8[0,11x0,031] 6 1 5,10 [0,201] 10,00 [0,394] 9,35 [0,368] 8,75 [0,344 28,75 [1,132] PINS 9,50 0,374] 0,020 ,25 [0,049] 0.049 M8x0,75 50 25 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 6 5,10 [0,201] 20,88 [0,822] 8,75 [0,344 <u>19,38 [0,763]</u> 10,50 [0,413] SHORT BODY PINS 0,020 9,50 0,374 0.049 0.049 M8x0,75 50 25 5 6 5,10 [0,201] <u>1</u>8,00 [0,709] 8,75 [0,344] 16,50 [0,650] 12,50 [0,492]

Ø8 mm panel mount LED indicators

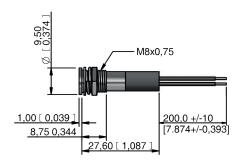




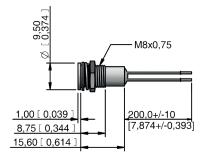
FLUSH BEZEL



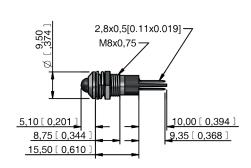
WIRES



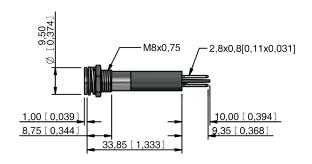
REAR EPOXY WIRES

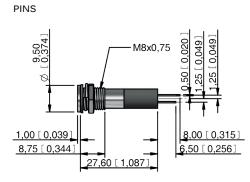




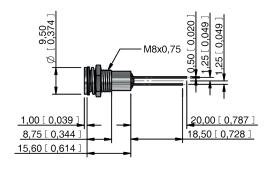


SOLDER LUG/FASTON

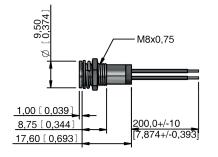




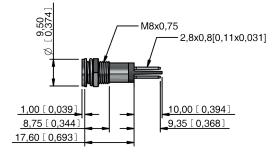
REAR EPOXY PINS

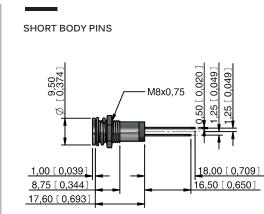


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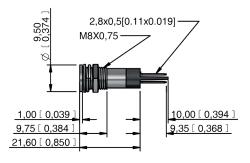


SHORT BODY SOLDER LUG/FASTONS





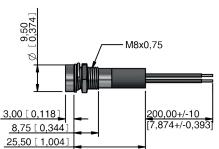
EXTENDED SHORT BODY SOLDER LUG/FASTONS



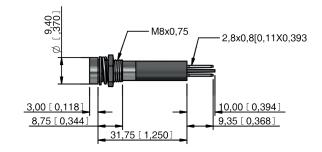
RECESSED BEZEL



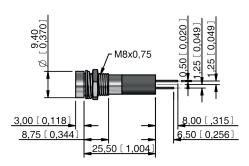
WIRES



SOLDER LUG/FASTON

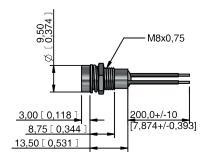


PINS

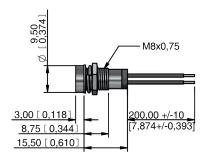


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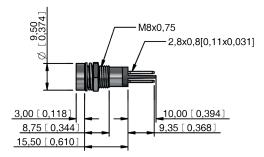
RECESSED BEZEL (CONTINUED) REAR EPOXY WIRES



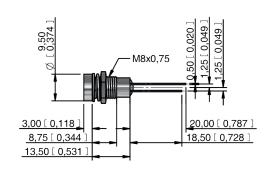
SHORT BODY WIRES



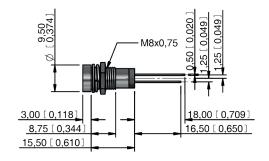
SHORT BODY SOLDER LUG/FASTONS



REAR EPOXY PINS



SHORT BODY PINS



EXTENDED SHORT BODY SOLDER LUG/FASTONS

