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



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: $-40 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)



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

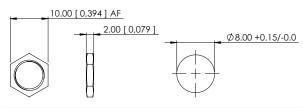


MATERIALS

- 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.

4006-022-002





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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	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	300 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				

ADDITIONNAL INFORMATION ON LED COMPONENTS

• Recommended usage:

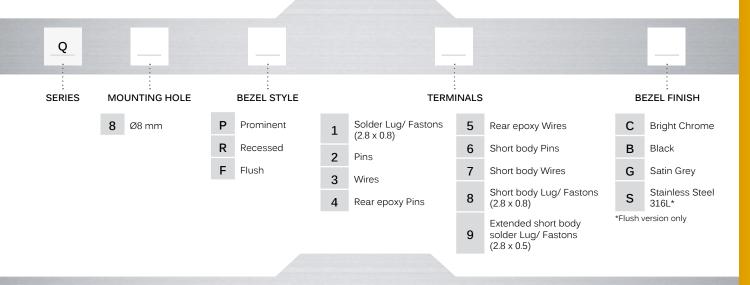
current.

- 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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BUILD YOUR PART NUMBER



LED COLOR VOLTAGE TYPE OF ILLUMINATION SFALING. XX Fixed Light R Red Hyper Bright Super Bright 02 no resistor* (Blank) Unsealed HG SW Green White Flashing Light Green 06 6 VDC IP67 G KK Hyper Bright Super Bright (12V - 28VDC) HY SO Yellow Orange Υ Yellow 12 12 VDC YY Bi-color Hyper Bright RG Red/Green HO 12 VAC/DC В Blue 12A Orange ZZ Tri-color RY Red/Yellow W White 24 24 VDC Super Bright SR Red GY Green/Yellow 24 VAC/DC 0 Orange 24A Super Bright Red/Yellow/ SG Hyper Bright RYG 28 28 VDC HR Green Super Bright 28A 28 VAC/DC SY Yellow 110 110 VAC * please refer to the Super Bright SB forward voltage is Blue electrical specifications 220 220 VAC



ABOUT THIS SERIES

- Notice: please note that not all combinations of above numbers are available.
 - Gold faston terminal denotes anode (+), silver terminal denotes
 - 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
 - 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]

- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- 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
- Standard tri-color faston terminals are two anodes (+) and one cathode (-)
- 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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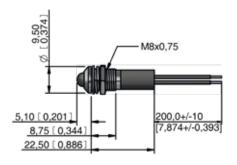
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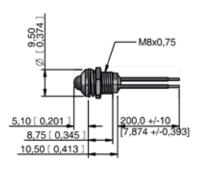
PROMINENT BEZEL



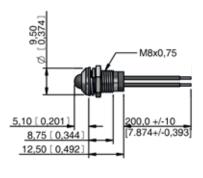
WIRES



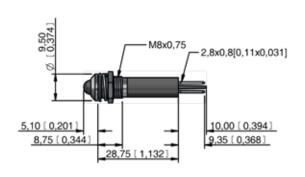
REAR EPOXY WIRES



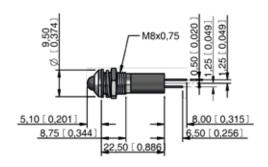
SHORT BODY WIRES



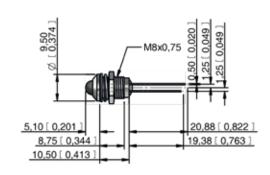
SOLDER LUG/FASTON



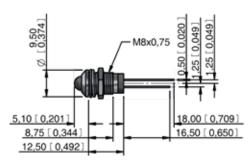
PINS



REAR EPOXY PINS



SHORT BODY PINS



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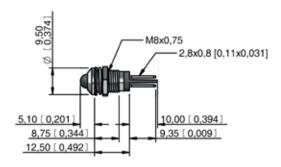
APEM

Q8 series

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PROMINENT BEZEL (CONTINUED)

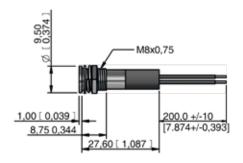
SHORT BODY SOLDER LUG/FASTONS



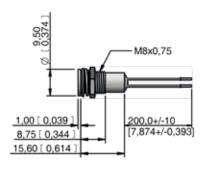
FLUSH BEZEL



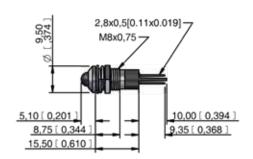
WIRES



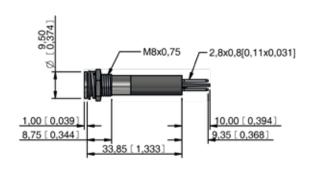
REAR EPOXY WIRES



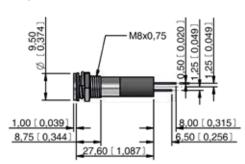
EXTENDED SHORT BODY SOLDER LUG/FASTONS



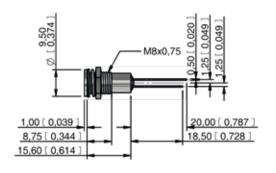
SOLDER LUG/FASTON



PINS



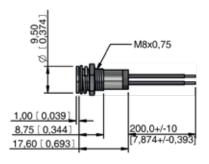
REAR EPOXY PINS



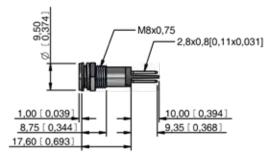
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FLUSH BEZEL (CONTINUED)

SHORT BODY WIRES

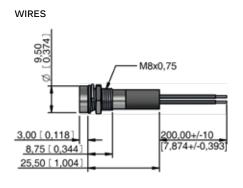


SHORT BODY SOLDER LUG/FASTONS

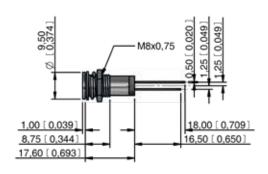


RECESSED BEZEL

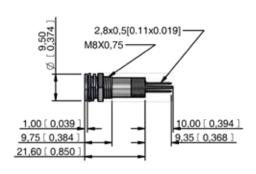




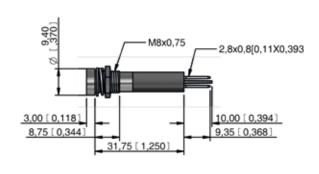
SHORT BODY PINS

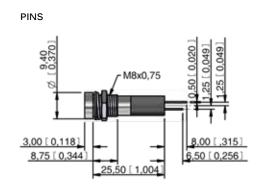


EXTENDED SHORT BODY SOLDER LUG/FASTONS



SOLDER LUG/FASTON





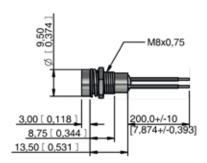
APEM

Q8 series

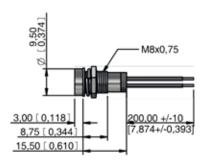
Ø8 mm panel mount LED indicators

RECESSED BEZEL (CONTINUED)

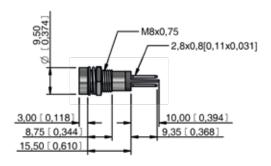
REAR EPOXY WIRES



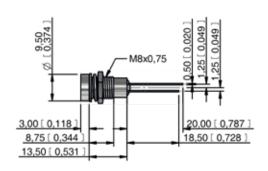
SHORT BODY WIRES



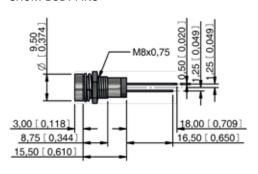
SHORT BODY SOLDER LUG/FASTONS



REAR EPOXY PINS



SHORT BODY PINS



EXTENDED SHORT BODY SOLDER LUG/FASTONS

