Ø10 mm panel mount LED indicators

) DISTINCTIVE FEATURES

5 mm flush diffused LED, standard, hyper bright or water clear Flush chamfered bezel style (200 mm long) wire terminations Available in RGB



1400102205

ENVIRONMENTAL SPECIFICATIONS

• IP67 sealing option (EN60529)

- Operating & Storage Temperature Range: -40 °C to +85° C (-40 °F to +185 °F)



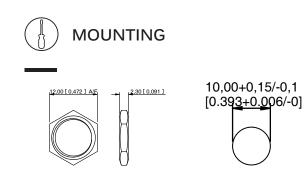
GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 60° (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

• Stainless Steel 316L or Anodized Aluminium with potted rear end



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





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ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

LED COMPONENT SPECIFICATIONS				
	Flush	Forward Voltage		
HE Red	8 mcd	2.0 V		
Green	6 mcd	2.2 V		
Yellow	6 mcd	2.1 V		
Blue	150 mcd	3.3V		
White	500 mcd	3.3 V		
Orange	110 mcd	2.2 V		
Bi-color (Typical) (Red/Green)	15/10 mcd	2.0 V/2.2 V		
Tri-color (Typical) (Red/Green/Yellow)	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.

SUPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS				
	Flush	Forward Voltage		
HE Red	1,300 mcd	2.2 V		
Green	3,000mcd	3.3 V		
Yellow	1,120 mcd	2.1 V		
Blue	280 mcd	3.3 V		
White	1,560 mcd	3.3 V		
Orange	500 mcd	2.2 V		

HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS				
	Flush	Forward Voltage		
HE Red	980 mcd	2.2 V		
Green	300 mcd	3.3 V		
Yellow	250 mcd	2.0 V		
Orange	110 mcd	2.2 V		

RGB LED INTENSITY

ITEM	SYMBOL	CONDITION	TYP.
DC Forward Voltage	V _F (R)	IF=20 mA	2.1
	V _F (B/G)	IF=20 mA	2.1
Luminous Intensity	Iv (Red)		330 mcd
	lv (Green)		750 mcd
	lv (Blue)		150 mcd

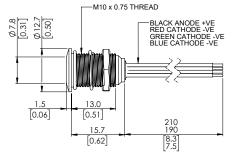
Operating Voltage	Operating Current
(Min to Max)	(Typical All Types)
1.8 to 3.3 VDC	20 mA max*
5.4 to 6.6 VDC	20 mA
10.8 to 13.2 VDC	20 mA
21.6 to 26.4 VDC	20 mA
25.2 to 30.8 VDC	20 mA
	(Min to Max) 1.8 to 3.3 VDC 5.4 to 6.6 VDC 10.8 to 13.2 VDC 21.6 to 26.4 VDC

* Customer to supply resistor for desired operating current.

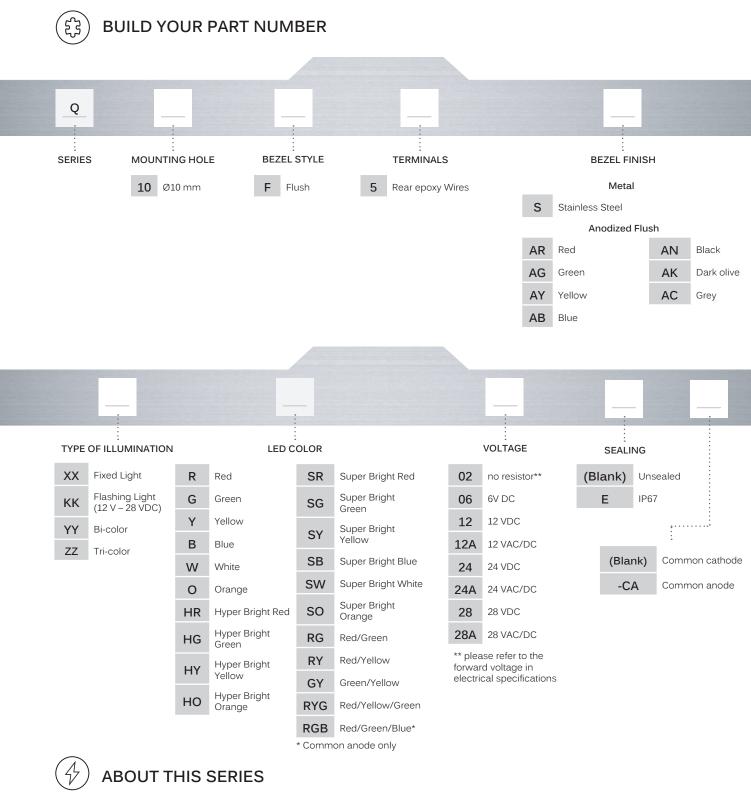
ADDITIONNAL INFORMATION ON LED COMPONENTS

- Bi-color leds, by connecting the gold solder lug
 (+) 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]
- The tri-color led has red and green leds when both are connected yellow is produced
- 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.
- 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.

REAR EPOXY WIRES FOR RGB OPTION



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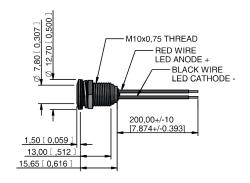
- Notice: please note that not all combinations of above numbers are available.
 - Standard and Bi-Colour are provided in Standard wire length is 200mm, 24AWG UL1061, Red wire denotes anode (+), Black wire denotes cathode (-) for other lengths consult APEM.
 - For LEDs with alternative voltages consult APEM
 - Standard Tri-color wire terminations are two Anodes (+) and one Cathode (-)
 - Tri-color wires are one red (+) and one green (+) Anode and one black (-) Cathode

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FLUSH BEZEL



REAR EPOXY WIRES



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