Ø19 mm panel mount LED indicators

DISTINCTIVE FEATURES

10 mm colored diffused epoxy lens or 10 mm water clear super bright LEDs

Prominent and flush bezel styles

(2.8 x 0.8) solder lug/faston terminals, pins or (200 mm long) wire terminations

Custom engraving available

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)

ND0191709

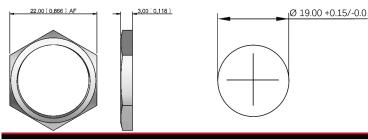
GENERAL SPECIFICATIONS

- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 75 cNm (dependent on option)
- Maximum panel thickness 11 mm



MATERIALS

• Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body









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ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

LED COMPONENT SPECIFICATIONS					
	Prominent and Recessed	Flush	Forward Voltage		
HE Red	80 mcd	10 mcd	2.0 V		
Green	60 mcd	5 mcd	2.2 V		
Yellow	50 mcd	4 mcd	2.1 V		
Blue	540 mcd	100 mcd	3.3 V		
White	1000 mcd	150 mcd	3.3 V		
Orange	80 mcd	200 mcd	2.2 V		
Bi-color (Typical) (Red/Green)	15/15 mcd	14/10 mcd	2.0 V/2.2 V		
Tri-color (Typical) (Red/Green/Yellow)	60/50/50 mcd	15/10/30 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

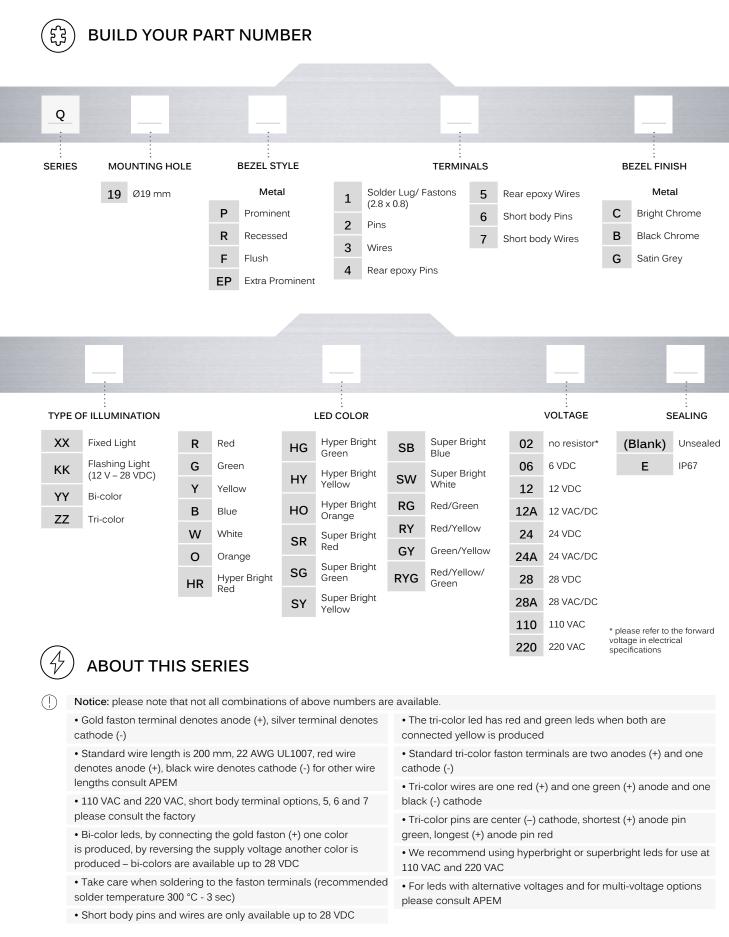
LED COMPONENT SPECIFICATIONS					
	Prominent and Recessed	Flush	Forward Voltage		
HE Red	17,000 mcd	2,000 mcd	2.0 V		
Green	11,000 mcd	680 mcd	3.5 V		
Yellow	4,000 mcd	350 mcd	2.3 V		
Blue	2,500 mcd	250 mcd	3.3 V		
White	4,400 mcd	250 mcd	3.3 V		
Orange	2,800 mcd	300 mcd	2.1 V		

HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS					
	Prominent and Recessed	Flush	Forward Voltage		
HE Red	2,800 mcd	800 mcd	2.1 V		
Green	2,200 mcd	250 mcd	3.2 V		
Yellow	1,300 mcd	250 mcd	2.0 V		
Orange	850 mcd	200 mcd	2.1 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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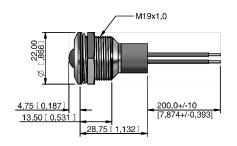
VDEN

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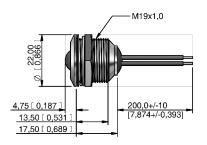
PROMINENT BEZEL



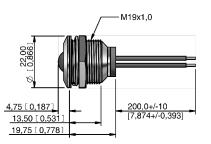
WIRES



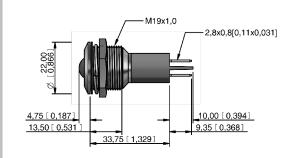
REAR EPOXY WIRES



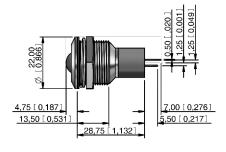
SHORT BODY WIRES



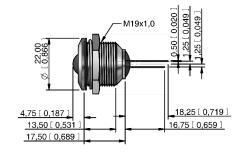
SOLDER LUG/FASTON



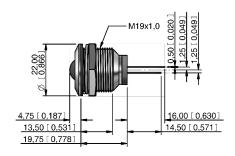
PINS



REAR EPOXY PINS

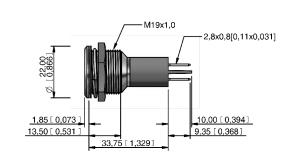


SHORT BODY PINS

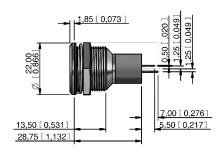


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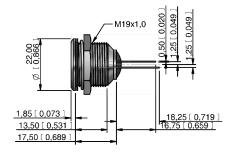
SOLDER LUG/FASTON



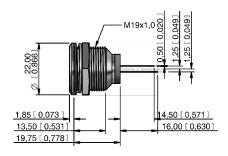
PINS



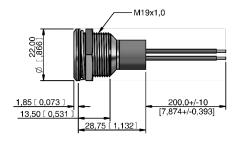
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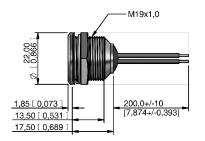
SHORT BODY PINS



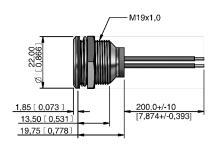
FLUSH BEZEL



REAR EPOXY WIRES



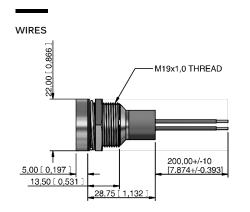
SHORT BODY WIRES



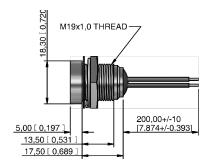
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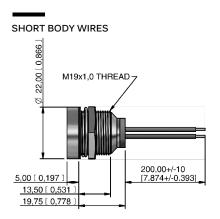
RECESSED BEZEL



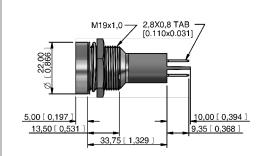


REAR EPOXY WIRES

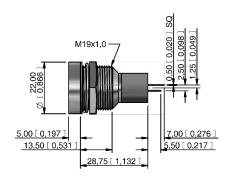




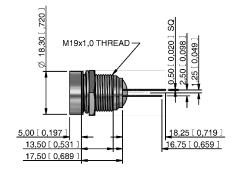
SOLDER LUG/FASTON



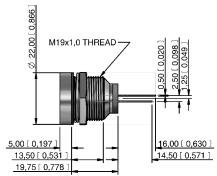
PINS



REAR EPOXY PINS



SHORT BODY PINS



APEM

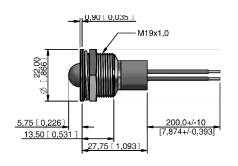
6

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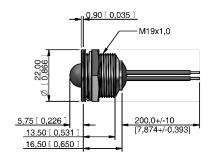
EXTRA PROMINENT BEZEL



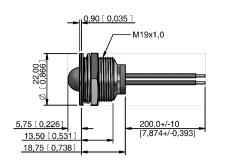
WIRES



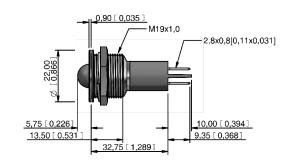
REAR EPOXY WIRES



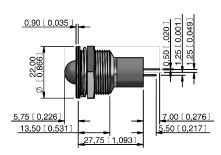
SHORT BODY WIRES



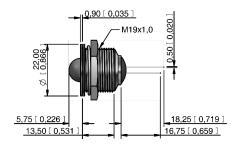
SOLDER LUG/FASTON



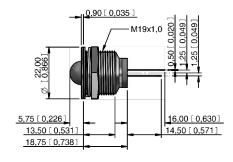
PINS



REAR EPOXY PINS



SHORT BODY PINS

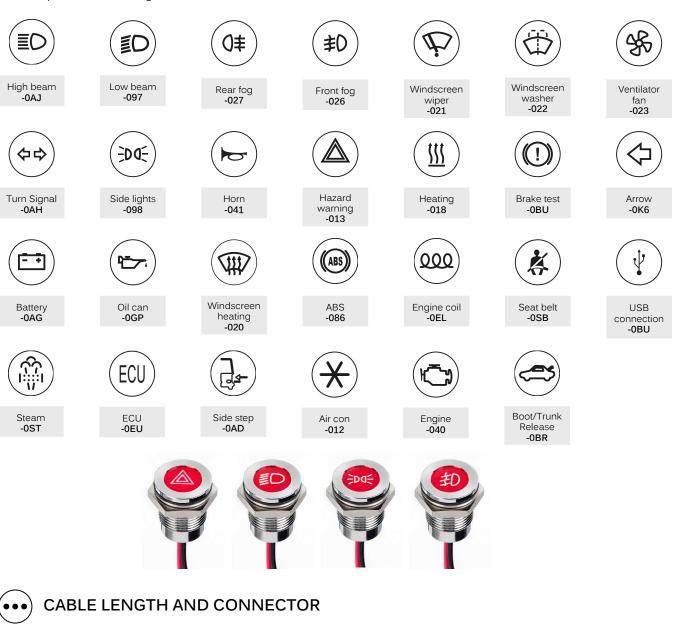


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LED INDICATORS

CUSTOM ENGRAVING

Some common codes are listed above, for your custom requirements please contact APEM. Unless specified standard engraving with white infill will be supplied. Suffix the part number with legend code :





For custom cable length and connectors contact APEM.

APEM