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

Available in RGB



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: 75 cNm (dependent on option)
- Maximum panel thickness 11 mm

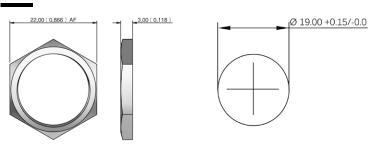


MATERIALS

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



MOUNTING



M19 x 1,0 THREAD

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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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.

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

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)		220 mdc
	Iv (Green)		500 mdc
	Iv (Blue)		100 mdc

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.

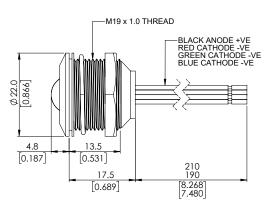
ADDITIONNAL INFORMATION ON LED COMPONENTS

- 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.



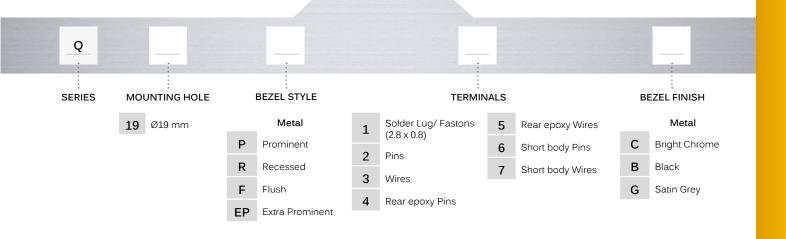
CONNECTIONS

REAR EPOXY WIRES FOR RGB OPTION



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BUILD YOUR PART NUMBER





common anode only



ABOUT THIS SERIES

- Notice: please note that not all combinations of above numbers are available.
- Gold faston terminal denotes anode (+), silver terminal denotes cathode (-)
- Standard wire length is 200 mm, 22 AWG UL1007, red wire denotes anode (+), black wire denotes cathode (-) for other wire lengths consult APEM
- 110 VAC and 220 VAC, short body terminal options, 5, 6 and 7 please consult the factory
- 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
- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- Short body pins and wires are only available up to 28 VDC

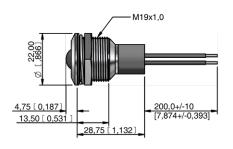
- The tri-color led has red and green leds when both are connected yellow is produced
- Standard tri-color faston terminals are two anodes (+) and one
- Tri-color wires are one red (+) and one green (+) anode and one black (-) cathode
- Tri-color pins are center (-) cathode, shortest (+) anode pin green, longest (+) anode pin red
- We recommend using hyperbright or superbright leds for use at 110 VAC and 220 VAC
- For leds with alternative voltages and for multi-voltage options please consult APEM

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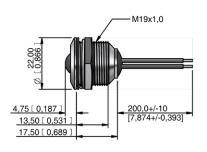
PROMINENT BEZEL



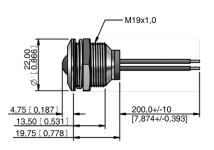
WIRES



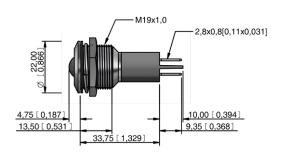
REAR EPOXY WIRES



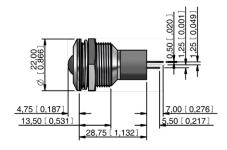
SHORT BODY WIRES



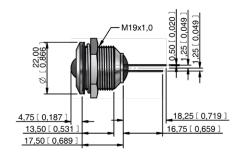
SOLDER LUG/FASTON

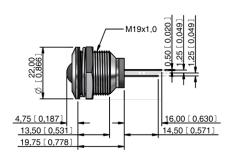


PINS



REAR EPOXY PINS





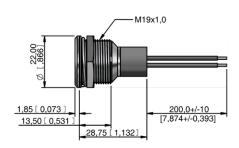
APEN APEN

Q19 series

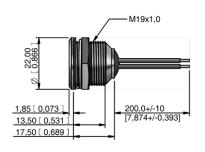
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FLUSH BEZEL

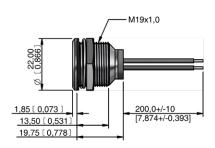
WIRES



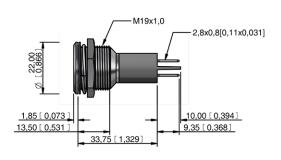
REAR EPOXY WIRES



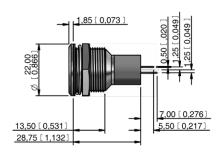
SHORT BODY WIRES



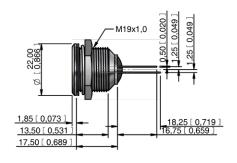
SOLDER LUG/FASTON

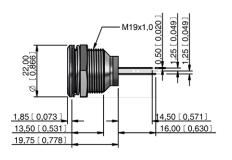


PINS



REAR EPOXY PINS

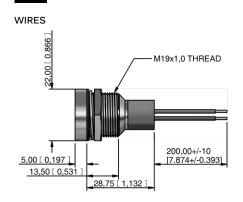




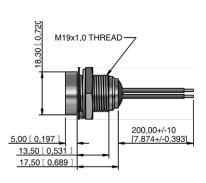
Ø19 mm panel mount LED indicators

RECESSED BEZEL

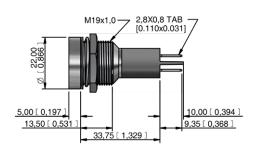




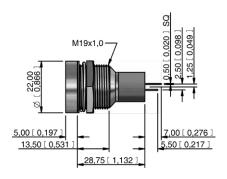
REAR EPOXY WIRES



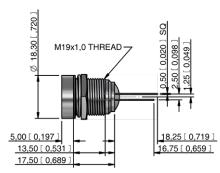
SOLDER LUG/FASTON

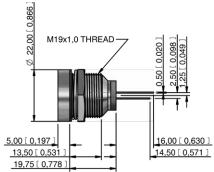


PINS



REAR EPOXY PINS





APEM

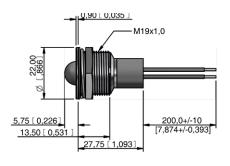
Q19 series

Ø19 mm panel mount LED indicators

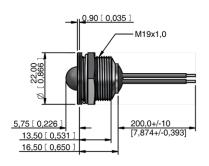
EXTRA PROMINENT BEZEL



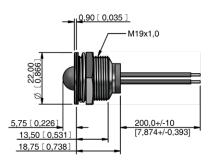
WIRES



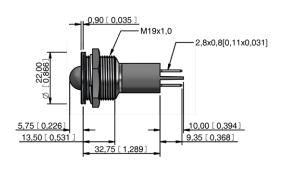
REAR EPOXY WIRES



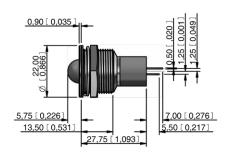
SHORT BODY WIRES



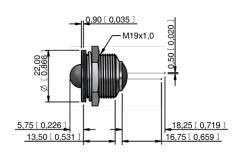
SOLDER LUG/FASTON

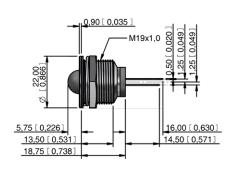


PINS



REAR EPOXY PINS





Ø19 mm panel mount 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:















High beam -0AJ



Rear fog -027 Front fog -026 Windscreen wiper -021 Windscreen washer -022



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Turn Signal

Side lights -098

Horn -**041** Hazard warning -013

Heating -018 Brake tes -0BU

















Battery -0AG Oil can -0GP Windscreen heating -020

ABS -086 Engine coil -0EL Seat belt -0SB













Side step -0AD



Air con



Engine -040



Boot/Trunk Release -0BR











CABLE LENGTH AND CONNECTOR







For custom cable length and connectors contact APEM.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Panel Mount Indicators category:

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Other Similar products are found below:

607-3232-140F 821-0331-503 FL2870C8R FL2950WL7B FL2950WL8G FL589WL8R FL67C8R H8630FBBA3 NL177WL2A NL177WL3G NL276C2A NL2950BWL3G NL589WL2R NL67C2C NL67C3R C480AABG3 PB22BM41K PB22SIM40Y PB22SKRS31KC L32R-R2-2311 L3353-MWRG L39UR-R24-2111 L58D-G2-W L58D-Y2-W L59D-R12-W L59UD-R12-W L625DG L625DR LE177WL39007 LE2950BWL39018 LH1048BSWL3702 LH1048BWL3702 LH382A LH677G LHM628A FL276WL7R FL2950BWL7R FL2950WL8R FL2950WL8R-12 FL2951WL8G FL2951WL8R FL589C7R FL67WL8G MPC5BCW18.0 556-1605-808F 556-1705-809F 556-3008-839F 558-0201-818F 559-0001-813F