

Q10 series

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



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 MΩ at 500 VDC

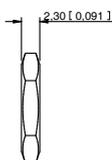
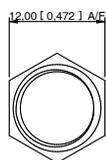


MATERIALS

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



MOUNTING



10,00+0,15/-0,1
 [0.393+0.006/-0]



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	2.1 V/3.1 V/3.1 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	I _v (Red)		330 mcd
	I _v (Green)		750 mcd
	I _v (Blue)		150 mcd

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

* Customer to supply resistor for desired operating current.

ADDITIONAL 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 than 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.

Our regulatory declarations & certifications

In accordance with its QHSE policy and its values, the APEM group applies the most demanding environmental regulations.

- UL Recognition

- REACH & ROHS

- Parc tested

- IP67

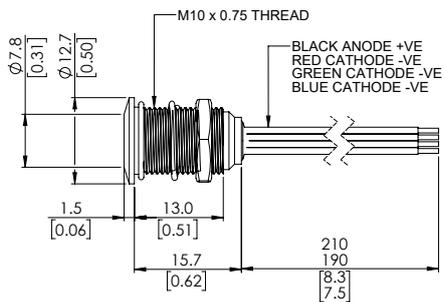
- LVD (BS EN 60838 :2017+A11 :2021)*

*Awareness to possible high level of moisture conditions



CONNECTIONS

REAR EPOXY WIRES FOR RGB OPTION



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BUILD YOUR PART NUMBER

Q	—	—	—	—	—
SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINISH	
	10 Ø10 mm	F Flush	5 Rear epoxy Wires		
				Metal	
				S Stainless Steel	
				Anodized Flush	
				AR Red	AN Black
				AG Green	AK Dark olive
				AY Yellow	AC Grey
				AB Blue	

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TYPE OF ILLUMINATION	LED COLOR		VOLTAGE	SEALING	
XX Fixed Light	R Red	SR Super Bright Red	02 no resistor**	(Blank) Unsealed	
KK Flashing Light (12 V – 28 VDC)	G Green	SG Super Bright Green	06 6V DC	E IP67	
YY Bi-color	Y Yellow	SY Super Bright Yellow	12 12 VDC	(Blank) Common cathode	
ZZ Tri-color	B Blue	SB Super Bright Blue	12A 12 VAC/DC		
	W White	SW Super Bright White	24 24 VDC		
	O Orange	SO Super Bright Orange	24A 24 VAC/DC		
	HR Hyper Bright Red	RG Red/Green	28 28 VDC	-CA Common anode	
	HG Hyper Bright Green	RY Red/Yellow	28A 28 VAC/DC		
	HY Hyper Bright Yellow	GY Green/Yellow			
	HO Hyper Bright Orange	RYG Red/Yellow/Green			
		RGB Red/Green/Blue*			

** please refer to the forward voltage in electrical specifications

* Common anode only



ABOUT THIS SERIES



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

