

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

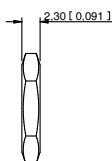
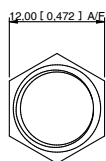


MATERIALS

- 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.

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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

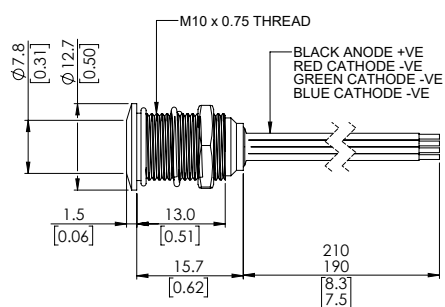
- LVD (BS EN 60838 :2017+A11 :2021)*

*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

S

Metal

AR

Red

AG

Green

AY

Yellow

AB

Blue

AN

Black

AK

Dark olive

AC

Grey

TYPE OF ILLUMINATION

LED COLOR

VOLTAGE

SEALING

XX

Fixed Light

KK

Flashing Light
(12 V – 28 VDC)

YY

Bi-color

ZZ

Tri-color

R

Red

G

Green

Y

Yellow

B

Blue

W

White

O

Orange

HR

Hyper Bright Red

HG

Hyper Bright Green

HY

Hyper Bright Yellow

HO

Hyper Bright Orange

SR

Super Bright Red

SG

Super Bright Green

SY

Super Bright Yellow

SB

Super Bright Blue

SW

Super Bright White

SO

Super Bright Orange

RG

Red/Green

RY

Red/Yellow

GY

Green/Yellow

RYG

Red/Yellow/Green

RGB

Red/Green/Blue*

02

no resistor**

06

6V DC

12

12 VDC

12A

12 VAC/DC

24

24 VDC

24A

24 VAC/DC

28

28 VDC

28A

28 VAC/DC

(Blank)

Unsealed

E

IP67

(Blank)

Common cathode

-CA

Common anode

** please refer to the forward voltage in electrical specifications

* Common anode only



ABOUT THIS SERIES



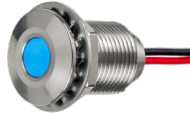
Notice: please note that not all combinations of above numbers are available.

- 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

