

# 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



## 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 (dependent on option)
- Maximum panel thickness 7 mm

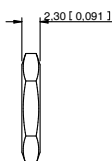
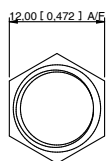


## MATERIALS

- 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			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	80 mcd	8 mcd	2.0 V
Green	60 mcd	6 mcd	2.2 V
Yellow	50 mcd	6 mcd	2.1 V
Blue	1,600 mcd	50 mcd	3.3V
White	1,600 mcd	500 mcd	3.3 V
Orange	60 mcd	110 mcd	2.2 V
Bi-color (Typical) (Red/Green)	14/30 mcd	15/10 mcd	2.0 V/2.2 V
Tri-color (Typical) (Red/Green/Yellow)	60/15/13 mcd	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			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	5,000 mcd	1,300 mcd	2.2 V
Green	10,000 mcd	1,200 mcd	3.3 V
Yellow	4,000 mcd	350 mcd	2.0 V
Blue	2,200mcd	280 mcd	3.3 V
White	2,500 mcd	950 mcd	3.3 V
Orange	4,000 mcd	500 mcd	2.2 V

### HYPER BRIGHT LED INTENSITY

LED COMPONENT SPECIFICATIONS			
	Prominent and Recessed	Flush	Forward Voltage
HE Red	6,000 mcd	980 mcd	2.2 V
Green	1,900 mcd	300 mcd	3.3 V
Yellow	1,600 mcd	250 mcd	2.0 V
Orange	2,400 mcd	110 mcd	2.2 V

- 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.

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

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## BUILD YOUR PART NUMBER

SERIES

MOUNTING HOLE

BEZEL STYLE

TERMINALS

BEZEL FINISH

Q

10

Ø10 mm

F

Flush

5

Rear epoxy Wires

S

Stainless Steel

Anodized Flush

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

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

\* please refer to the forward voltage in electrical specifications

\* please refer to the forward voltage in electrical specifications



## ABOUT THIS SERIES



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

- Standard wire length is 200 mm, 24 AWG UL1061, red wire denotes anode (+), black wire denotes cathode (-) for other wire 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

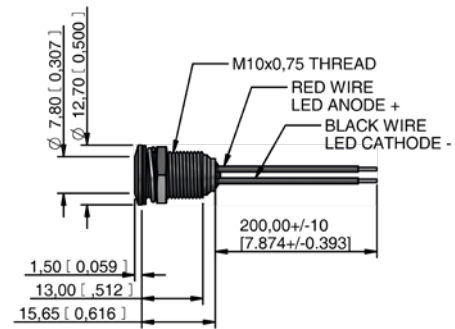
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## FLUSH BEZEL



## REAR EPOXY WIRES



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