

Q10 SERIES Ø10mm (.393") Panel Mount LED Indicators

Distinctive features and specifications

Q10_VOY1704US

Features

- 10mm panel mount LED indicator
- 5mm flush diffused LED, standard, hyper bright or water clear
- 316L Stainless Steel bezel
- Flush chamfered bezel style
- 2VDC – 28VAC/DC
- 200mm long potted wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer
- Bi-color and Tri color options



NB: UL Recognized Component

TECHNICAL SPECIFICATIONS

Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
02 (No Resistor)	1.8 to 3.3VDC	20mA max*
6VDC	5.4 to 6.6VDC	20mA
12VDC	10.8 to 13.2VDC	20mA
24VDC	21.6 to 26.4VDC	20mA
28VDC	25.2 to 30.8VDC	20mA

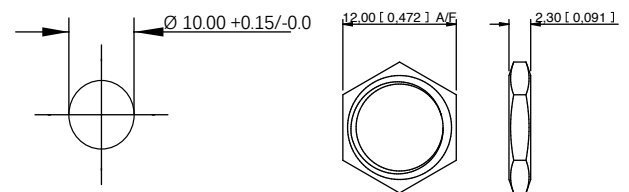
Max Reverse Voltage: 5V

Viewing Angle: 60° (dependant on model)

Life Expectancy: 100,000 hours

Temperature Range: -40 to +85°C (operating & storage)

Torque: 20 to 25cNm



PANEL CUTOUT

Standard LED Intensity	Prominent and Recessed	Flush	Forward Voltage
HE Red	80mcd	8mcd	2.0V
Green	60mcd	6mcd	2.2V
Yellow	50mcd	6mcd	2.1V
Blue	1600mcd	50mcd	3.3V
White	1600mcd	500mcd	3.3V
Orange	60mcd	110mcd	2.2V
Bi-color (Typical) (Red/Green)	14/30mcd	15/10mcd	2.0V/2.2V
Tri-color (Typical) (Red/Green/Yellow)	60/15/13mcd	15/10/6mcd	2.0V/2.2V/2.1V

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	Prominent and Recessed	Flush	Forward Voltage
HE Red	5,000mcd	1,300mcd	2.2V
Green	10,000mcd	1,200mcd	3.3V
Yellow	4,000mcd	350mcd	2.0V
Blue	2,200mcd	280mcd	3.3V
White	2,500mcd	950mcd	3.3V
Orange	4,000mcd	500mcd	2.2V

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

Luminous intensity will be reduced with lower operating current.

Note: The operating voltage must not be exceeded by more than 10% as this will result in reduced life expectancy.
The company reserves the right to change specifications without notice.

* Customer to supply resistor for desired operating current.

Luminous intensity is measured at 20mA on a discrete LED unless otherwise stated.

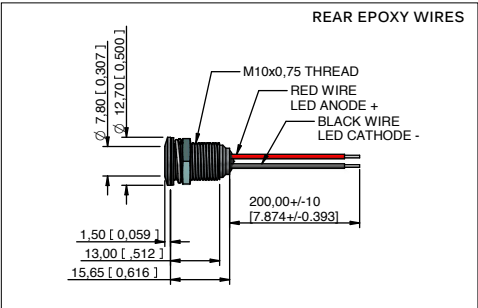
Luminous intensities and color shades of white LEDs may vary within a batch.

LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal.

Q10 SERIES Ø10mm (.393") Panel Mount LED Indicators

Technical Drawings

FLUSH BEZEL



Q10 SERIES Ø10mm (.393") Panel Mount LED Indicators

Overview

STANDARD OPTIONS

The Q10 Series is available with a range of standard options, to specify your LED, simply choose one option from each column. An example is shown below.

Q	10	F	5	S	XX	Y	12	E
SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINISH	TYPE OF ILLUMINATION	LED COLOR	VOLTAGE	SEALING
Q	10 = Ø10mm	F = Flush	5 = Rear epoxy Wires	S = Stainless Steel	XX = Fixed Light KK = Flashing Light (12V – 28VDC) 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 = 6VDC 12 = 12VDC 12A = 12VAC/DC 24 = 24VDC 24A = 24VAC/DC 28 = 28VDC 28A = 28VAC/DC	(Blank) = Unsealed E = IP67

Example Q10F5SXXY12E

Ø10mm, flush bezel, 200mm wire terminations stainless steel finish, fixed light, yellow 2VDC LED, IP67 panel sealed



- Standard wire length is 200mm, 24AWG UL1061, red wire denotes Anode (+), black wire denotes Cathode (-) for other wire lengths consult APEM
- For LEDs with alternative voltages consult APEM
- Bi-color LEDs, by connecting the red wire (+) one color is produced, by reversing the supply voltage another color is produced – Bi-colors are available up to 28VDC. [AC products not available]
- Maximum panel thickness 7mm
- The Tri-color LED has red and green LEDs when both are connected yellow is produced
- 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

* = For resistorless versions (02) please refer to the forward voltage on page 1