

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

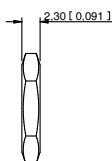
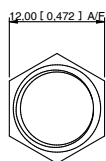


MATERIALS

- 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



Q10 series

Ø10 mm panel mount LED indicators



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	Iv (Red)		330 mcd
	Iv (Green)		750 mcd
	Iv (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.

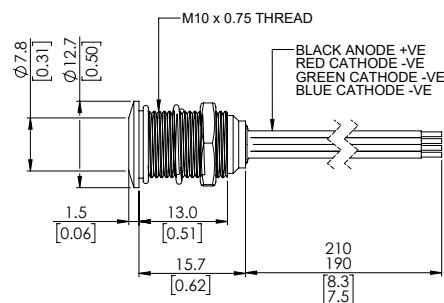
ADDITIONAL INFORMATION ON LED COMPONENTS

- 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.



CONNECTIONS

REAR EPOXY WIRES FOR RGB OPTION



Q10 series

Ø10 mm panel mount LED indicators



BUILD YOUR PART NUMBER

SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINISH								
Q	10 Ø10 mm	F Flush	5 Rear epoxy Wires	Metal S Stainless Steel Anodized Flush <table border="1"> <tr> <td>AR Red</td> <td>AN Black</td> </tr> <tr> <td>AG Green</td> <td>AK Dark olive</td> </tr> <tr> <td>AY Yellow</td> <td>AC Grey</td> </tr> <tr> <td>AB Blue</td> <td></td> </tr> </table>	AR Red	AN Black	AG Green	AK Dark olive	AY Yellow	AC Grey	AB Blue	
AR Red	AN Black											
AG Green	AK Dark olive											
AY Yellow	AC Grey											
AB Blue												

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

** please refer to the forward voltage in electrical specifications

* Common anode only



ABOUT THIS SERIES



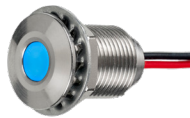
Notice: please note that not all combinations of above numbers are available.

- 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

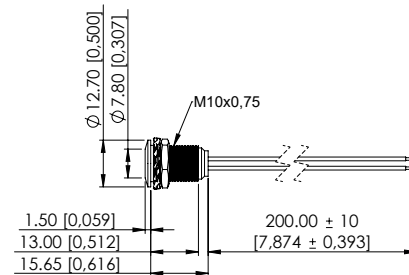
Q10 series

Ø10 mm panel mount LED indicators

FLUSH BEZEL



REAR EPOXY WIRES



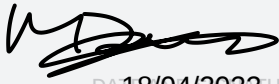
Q10 series

Ø10 mm panel mount LED indicators

CORRECTNESS PROCEDURE

CHANGES DONE : PAGE 4 UPDATE OF THE «REAR EPOXY WIRES» DRAWING

This datasheet have ben approved and can be be officially released.



DATE AND SIGNATURE
18/04/2023

PRODUCT MANAGER



Manon LOBB 24/05/2023

DATE AND SIGNATURE

COMMUNICATION
DEPARTMENT

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[Q10F5SXXSR24E](#) [Q10F5SXXSR12E](#) [Q10F5SXXW02E](#) [Q10F5SXXSB24E](#) [Q10F5SXXSB02E](#) [Q10F5SXXSY24E](#)
[Q10F5SXXSG24E](#) [Q10F5SXXSG12E](#) [Q10F5SXXHR24E](#) [Q10F5SXXSY02E](#) [Q10F5SXXSR02E](#) [Q10F5SXXHR12E](#)
[Q10F5SXXSB12E](#) [Q10F5SXXHY12E](#) [Q10F5SXXHY02E](#) [Q10F5SXXW24E](#) [Q10F5SXXW12E](#) [Q10F5SXXHG02E](#)
[Q10F5SXXSW12E](#) [Q10F5SXXSG02E](#) [Q10F5SXXSW02E](#) [Q10F5SXXHR02E](#) [Q10F5SXXSW24E](#) [Q10F5SXXHG12E](#)
[Q10F5SXXSY12E](#) [Q10F5ANZZRYG24E](#) [Q10F5SZZRGB12ECA](#) [Q10F5SZZRGB24ECA](#) [Q10F5ANZZRGB12ECA](#)
[Q10F5ANZZRGB24ECA](#) [Q10F5SXXB12E](#) [Q10F5SXXB02E](#) [Q10F5SXXB24E](#) [Q10F5SXXG06E](#) [Q10F5SXXR06E](#)
[Q10F5SXXY06E](#) [Q10F5SYYRG06E](#)