

# Q SERIES Ø6mm (.236") Panel Mount LED Indicators

## Distinctive features and specification

VOYC1507US

### Features

- 6mm panel mounting LED indicator
- 3mm colored diffused epoxy lens or 3mm super/hyper bright LEDs
- Plated brass bezel finished in bright chrome, black chrome or satin grey
- Prominent, recessed and flush bezel styles
- 2VDC – 28VDC
- (2.0 x 0.5) solder lug terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer

NB: UL Recognized Component



### TECHNICAL SPECIFICATIONS

Voltage	Operating Voltage	Operating Current
	(Min to Max)	(Typical All Types)
2VDC (No Resistor)	1.8 to 2.5VDC	20mA*
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

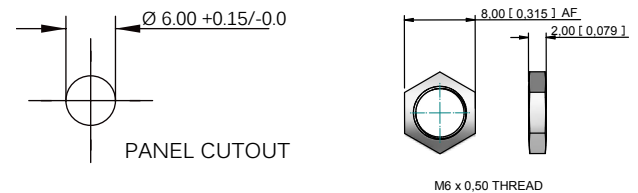
Max Reverse Voltage: 5V

Viewing Angle: 30–100° (dependant on model)

Life Expectancy: 100,000 hours

Operating Temperature Range: –40 to +85°C

Torque: 4cNm



Standard LED Intensity	Prominent and Recessed	Flush	Forward Voltage
HE Red	40mcd	10mcd	2.0V
Green	40mcd	8mcd	2.2V
Yellow	30mcd	8mcd	2.1V
Blue	1,200mcd	100mcd	3.3V
White	1,200mcd	220mcd	3.3V
Orange	60mcd	10mcd	2.0V
Bi-color (Typical) (Red/Green)	20/15mcd	10/8mcd	2.0V/2.2V

The color is changed by reversing the polarity of the supply voltage.

Super Bright	Prominent and Recessed	Flush	Forward Voltage
HE Red	3,500mcd	500mcd	2.2V
Green	2,000mcd	350mcd	3.5V
Yellow	900mcd	140mcd	2.3V
Blue	2800mcd	200mcd	3.3V
White	600mcd	350mcd	3.3V
Orange	10,000mcd	500mcd	2.2V

Hyper Bright	Prominent and Recessed	Flush	Forward Voltage
HE Red	3,700mcd	600mcd	2.2V
Green	2,000mcd	350mcd	3.2V
Yellow	1,200mcd	140mcd	2.0V
Orange	4,500mcd	400mcd	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.

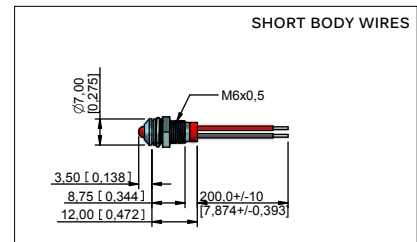
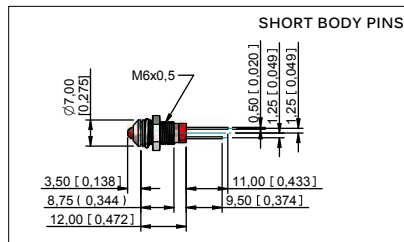
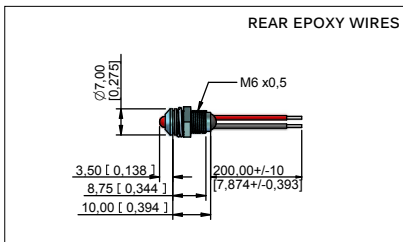
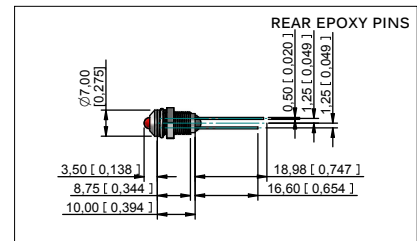
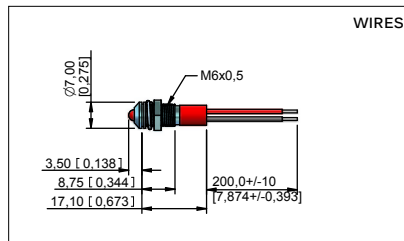
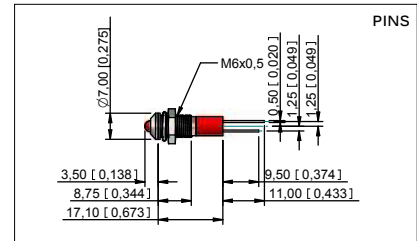
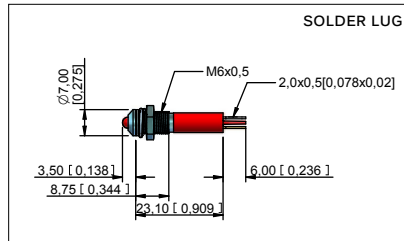
\* Customer to supply resistor for desired operating current.

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

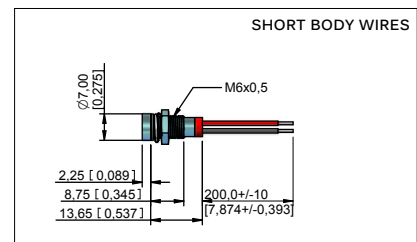
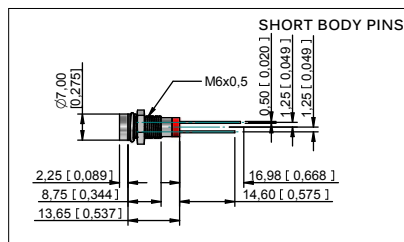
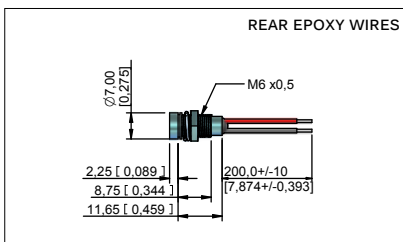
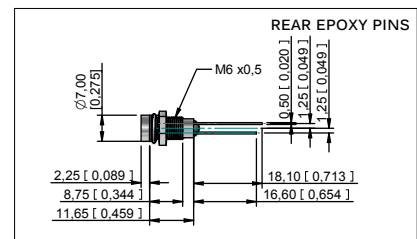
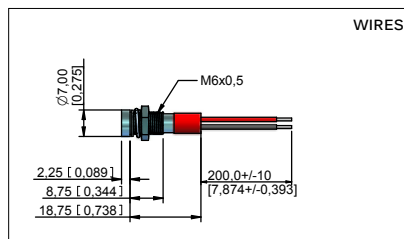
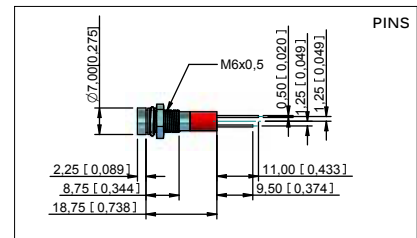
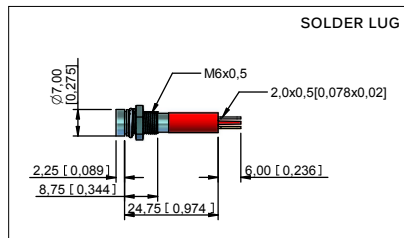
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## Technical Drawings

### PROMINENT BEZEL



### RECESSED BEZEL



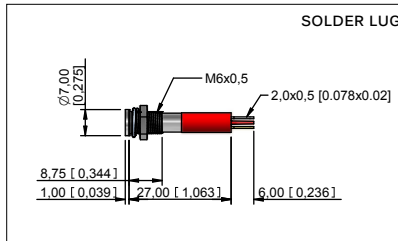
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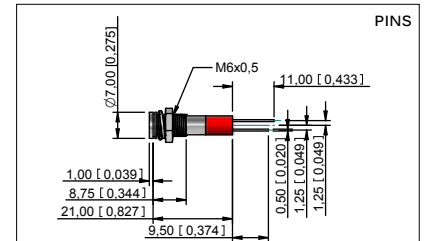
FLUSH BEZEL



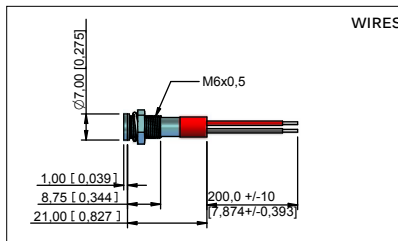
SOLDER LUG



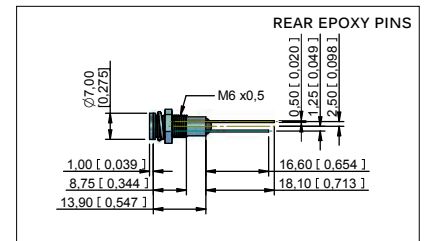
PINS



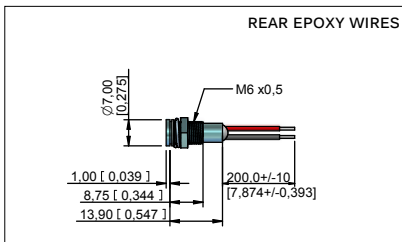
WIRES



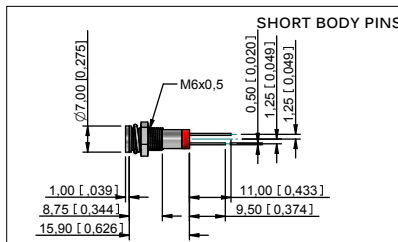
REAR EPOXY PINS



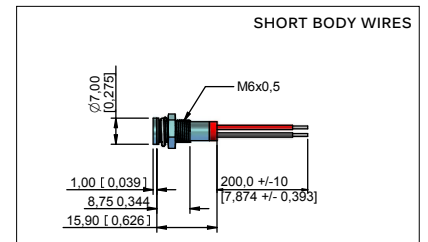
REAR EPOXY WIRES



SHORT BODY PINS



SHORT BODY WIRES



# Q SERIES Ø6mm (.236") Panel Mount LED Indicators

## Overview

### STANDARD OPTIONS

The Q6 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	6	P	1	B	XX	G	12	E
SERIES	MOUNTING HOLE	BEZEL STYLE	TERMINALS	BEZEL FINISH	TYPE OF ILLUMINATION	LED COLOR	VOLTAGE	SEALING
Q	6 = Ø6mm	P = Prominent R = Recessed F = Flush	1 = Solder Lug 2 = Pins 3 = Wires 4 = Rear epoxy Pins 5 = Rear epoxy Wires 6 = Short body Pins 7 = Short body Wires	C = Bright Chrome B = Black Chrome G = Satin Grey	XX = Fixed Light KK = Flashing Light (12VDC-28VDC) YY = Bi-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	02 = 2VDC 06 = 6VDC 12 = 12VDC 12A = 12VAC/DC 24 = 24VDC 24A = 24VAC/DC 28 = 28VDC 28A = 28VAC/DC	(Blank) = Unsealed E = IP67

#### Example Q6F3CXXB12E

Ø6mm, flush bezel, wire terminals  
bright chrome finish, fixed light,  
blue, 12VDC LED, IP67 panel sealed



- Gold solder lug terminal denotes Anode (+), silver terminal denotes Cathode (-)
- Standard wire length is 200mm, 24AWG, 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 gold solder lug (+) one color is produced, by reversing the supply voltage another color is produced – Bi-colors are available up to 28VDC
- Take care when soldering to the terminals (recommended solder temperature 270°C - 2 sec)
- Short body options are only available up to 24VDC
- Maximum panel thickness 7mm
- For resistorless versions (02) please pay attention to the forward voltage