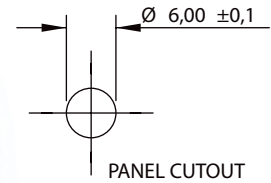


# Q-SERIES 6mmØ Panel Mounting LED Indicator

## Product Specification

### Distinctive Features and Specifications

- 6mm panel mounting LED indicator
- 3mm coloured diffused epoxy lens or 3mm water clear super bright LEDs
- Bright chrome, black chrome or satin grey bezel finish
- Prominent, recessed and flush bezel styles
- 2VDC – 28VDC
- (2.0 x 0.5) terminals, pins or (200mm long) wire terminations
- IP67 sealing option (EN60529)
- Supplied with fixing nut and spring washer



NB: UL Recognised Component

### TECHNICAL SPECIFICATIONS

| Switch Voltage     | Operating Voltage Vop<br>(Min to Max) | Operating Current Iop<br>(Typical All Types) |
|--------------------|---------------------------------------|--|
| 2VDC (No Resistor) | 1.8 to 2.5VDC                         | 20mA   |
| 12VDC              | 10.8 to 13.2VDC                       | 20mA   |
| 24VDC              | 21.6 to 26.4VDC                       | 20mA   |
| 28VDC              | 25.2 to 30.8VDC                       | 20mA   |

| Intensity (Typical) at Iop Standard | Prominent and Recessed<br>(all voltages) | Flush<br>(all voltages) | Forward Voltage |
|-------------------------------------|--|-------------------------|-----------------|
| HE Red                              | 40mcd                                    | 10mcd                   | 2.0V            |
| Green                               | 40mcd                                    | 8mcd                    | 2.2V            |
| Yellow                              | 30mcd                                    | 8mcd                    | 2.1V            |
| Blue                                | 65mcd                                    | 8mcd                    | 3.8V            |
| White                               | 100mcd                                   | 15mcd                   | 3.8V            |
| Bi-colour (Typical) (Red/Green)     | 20/15mcd                                 | 10/8mcd                 | 2.0V/2.2V       |

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

| Super Bright | Prominent and Recessed<br>(all voltages) | Flush<br>(all voltages) | Forward Voltage |
|--------------|--|-------------------------|-----------------|
| HE Red       | 3,500mcd                                 | 500mcd                  | 2.2V            |
| Green        | 2,000mcd                                 | 350mcd                  | 3.5V            |
| Yellow       | 900mcd                                   | 140mcd                  | 2.3V            |
| Blue         | 550mcd                                   | 200mcd                  | 3.7V            |
| White        | 600mcd                                   | 150mcd                  | 3.6V            |

Luminous intensity will be reduced with lower operating current.

**Max Reverse Voltage:** 5V

**Viewing Angle:** 100° (dependant on model)

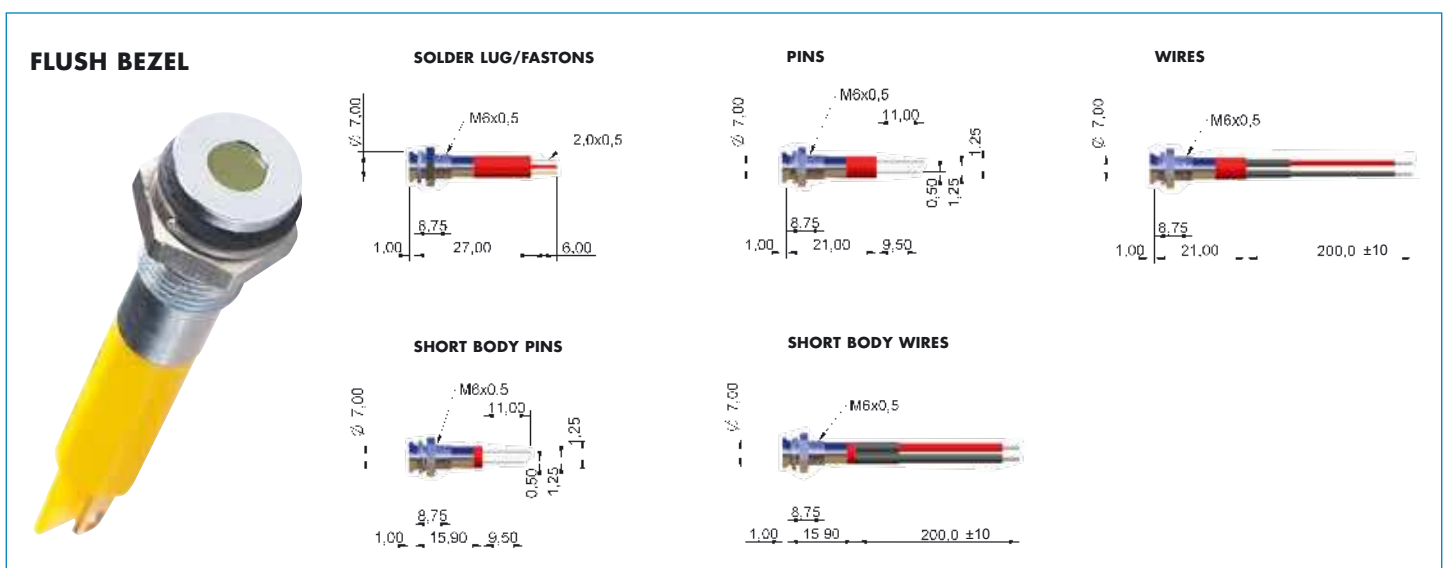
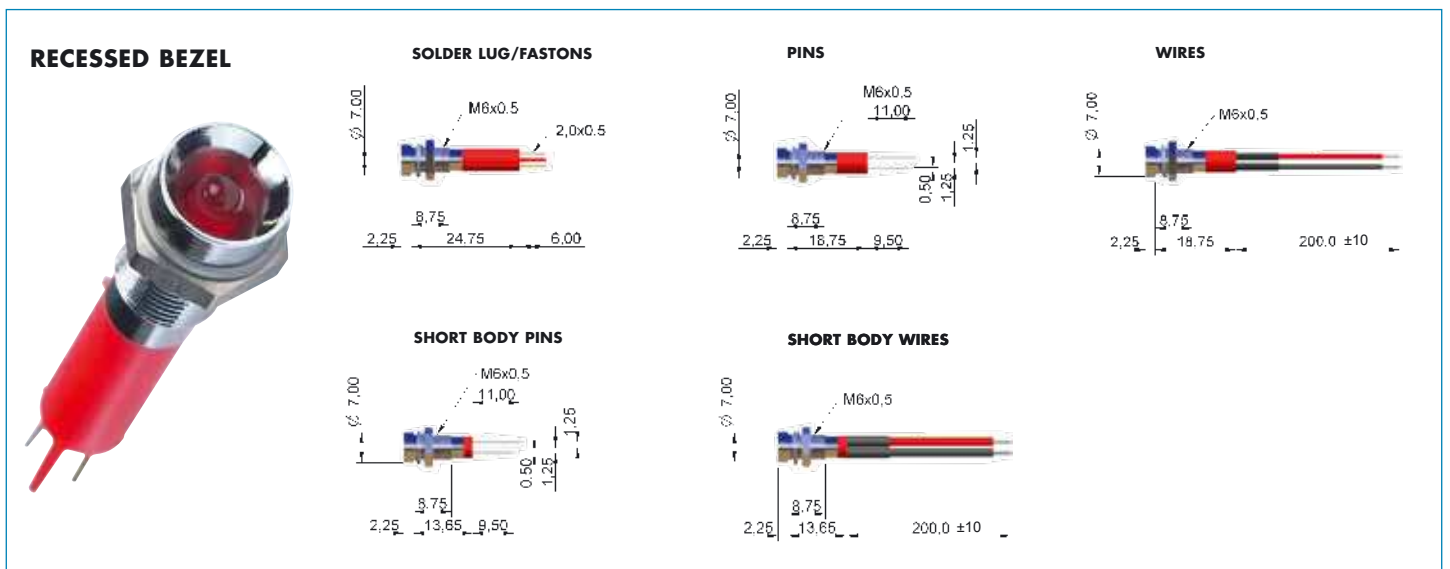
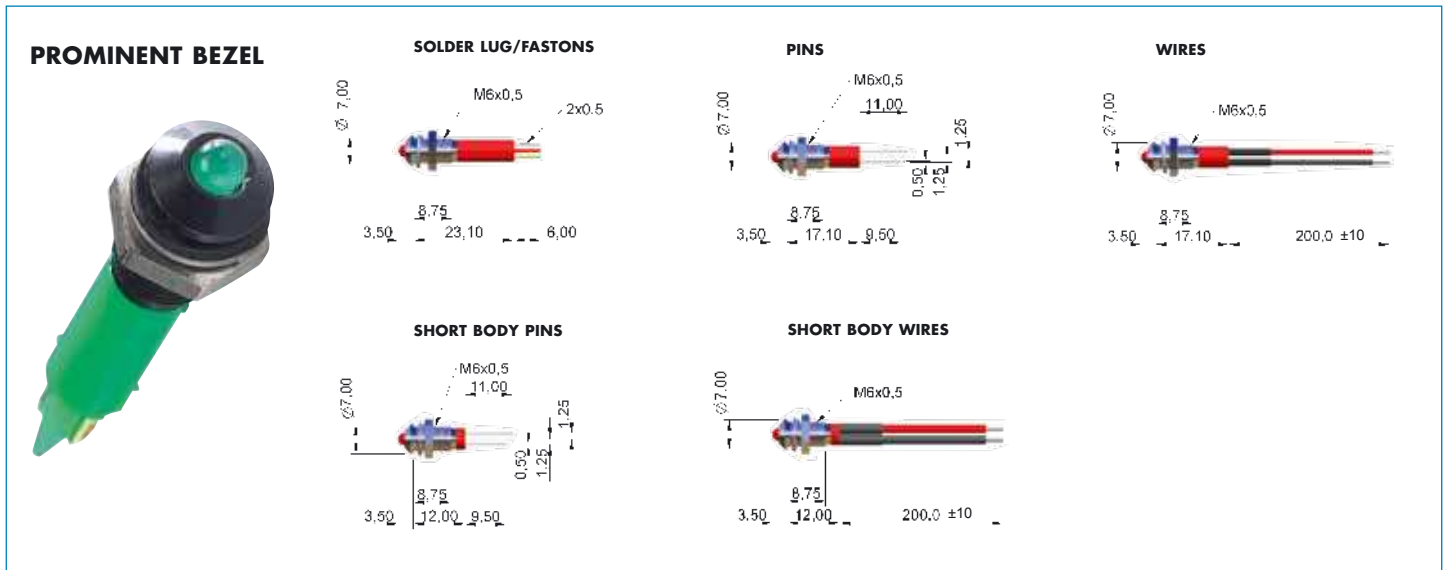
**Life Expectancy:** 100,000 hours

**Operating Temperature Range:** -40 to +85°C

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.

# Q-SERIES 6mmØ Panel Mounting LED Indicator

## Technical Drawings



Note: The company reserves the right to change specifications without notice.

# Q-SERIES 6mmØ Panel Mounting LED Indicator

## Order 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 COLOUR   | VOLTAGE  | SEALING                        |
| Q      | 6 = Ø6mm      | P = Prominent<br>R = Recessed<br>F = Flush | 1 = Solder Lug/<br>Fastons<br>(2.0 x 0.5)<br>2 = Pins<br>3 = Wires<br>6 = Short body<br>Pins<br>7 = Short body<br>Wires | C = Bright Chrome<br>B = Black Chrome<br>G = Satin Grey | XX = Fixed Light<br>KK = Flashing Light<br>YY = Bi-colour | R = Red<br>G = Green<br>Y = Yellow<br>B = Blue<br>W = White<br>SR = Super Bright Red<br>SG = Super Bright Green<br>SY = Super Bright Yellow<br>SB = Super Bright Blue<br>SW = Super Bright White<br>RG = Red/Green<br>RY = Red/Yellow<br>GY = Green/Yellow | O2 = 2VDC<br>O6 = 6VDC<br>12 = 12VDC<br>12A = 12VAC/DC<br>24 = 24VDC<br>24A = 24VAC/DC<br>28 = 28VDC<br>28A = 28VAC/DC | (Blank) = Unsealed<br>E = IP67 |

#### Example Q6P1BXXG12E

Ø6mm, prominent bezel, solder lug terminals, black chrome finish, fixed light, green, 12volt DC LED, IP67 Panel Seal



- Gold Faston 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 alternate voltages consult APEM
- Bi-colour LEDs, by connecting the gold Faston (+) one colour is produced, by reversing the supply voltage another colour is produced – Bi-colours are available up to 28VDC
- Take care when soldering to the Faston terminals
- Short body options are only available up to 24VDC
- Maximum panel thickness 7mm
- For behind panel epoxy sealed options please contact APEM
- For resistorless versions (O2) please pay attention to the forward voltage