# Q6 series

Ø6 mm panel mount LED indicators

## DISTINCTIVE FEATURES

**3 mm colored diffused epoxy lens or 3 mm water clear super bright LEDs**

**Prominent, recessed and flush bezel styles**

**(2.0 x 0.5) solder lug terminals, pins or (200 mm long) wire terminations, other lengths available on request**

## ENVIRONMENTAL SPECIFICATIONS

- IP67 sealing option (EN60529)
- Operating & Storage Temperature Range:
  **Rear plastic body:** -30 °C to +65 °C ( –22 °F to +149 °F)
  **Rear epoxy body:** -40 °C to +85 °C ( –40 °F to +185 °F)

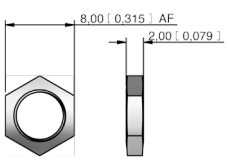
## GENERAL SPECIFICATIONS

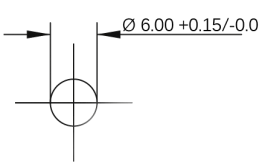
- Max Reverse Voltage: 5 V
- Viewing Angle: 30–100° (dependant on model)
- Life Expectancy: 100,000 hours
- Torque: 4 cNm (dependent on option)
- Maximum panel thickness 7 mm

## MATERIALS

- Plated brass bezel finished in bright chrome, black chrome or satin grey and moulded polycarbonate rear body

## MOUNTING




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 subjet to variations.

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## ELECTRICAL SPECIFICATIONS

STANDARD LED INTENSITY

| LED COMPONENT SPECIFICATIONS | | | |
|---|---|---|---|
| | Prominent and Recessed | Flush | Forward Voltage |
| HE Red | 40 mcd | 10 mcd | 2.0 V |
| Green | 50 mcd | 12 mcd | 2.2 V |
| Yellow | 30 mcd | 6 mcd | 2.1 V |
| Blue | 1,200 mcd | 100 mcd | 3.8 V |
| White | 1,200 mcd | 160 mcd | 3.8 V |
| Orange | 60 mcd | 10 mcd | 2.0 V |
| Bi-color (Typical) (Red/Green) | 20/15 mcd | 10/8 mcd | 2.0 V/2.2V |
| Bi-color - The color is changed by reversing the polarity of the supply voltage. | | | |

SUPER BRIGHT LED INTENSITY

| LED COMPONENT SPECIFICATIONS | | | |
|---|---|---|---|
| | Prominent and Recessed | Flush | Forward Voltage |
| HE Red | 1,000 mcd | 700 mcd | 2.2 V |
| Green | 1,200 mcd | 2,000 mcd | 3.5 V |
| Yellow | 2,000 mcd | 8,000 mcd | 2.3 V |
| Blue | 1,600mcd | 200 mcd | 3.3 V |
| White | 1,200 mcd | 350 mcd | 3.3 V |
| Orange | 10,000 mcd | 500 mcd | 2.2 V |

HYPER BRIGHT LED INTENSITY

| LED COMPONENT SPECIFICATIONS | | | |
|---|---|---|---|
| | Prominent and Recessed | Flush | Forward Voltage |
| HE Red | 3,700 mcd | 600 mcd | 2.2 V |
| Green | 2,000 mcd | 350 mcd | 3.2 V |
| Yellow | 1,200 mcd | 140 mcd | 2.0 V |
| Orange | 4,500 mcd | 400 mcd | 2.2 V |

| Voltage | Operating Voltage (Min to Max) | Operating Current (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.

- The operating voltage must not be exceeded by more that 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.

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## BUILD YOUR PART NUMBER

Q

### SERIES

### MOUNTING HOLE

| | |
|---|---|
| 6 | Ø6 mm |

### BEZEL STYLE

| | |
|---|---|
| P | Prominent |
| R | Recessed |
| F | Flush |

### TERMINALS

| | |
|---|---|
| 1 | Solder Lug/ Fastons (2.0 x 0.5) |
| 2 | Pins |
| 3 | Wires |
| 4 | Rear epoxy Pins |
| 5 | Rear epoxy Wires |
| 6 | Short body Pins |
| 7 | Short body Wires |

### BEZEL FINISH

| | |
|---|---|
| C | Bright Chrome |
| B | Black Chrome |
| G | Satin Grey |

### TYPE OF ILLUMINATION

| | |
|---|---|
| XX | Fixed Light |
| KK | Flashing Light (12 V – 28 VDC) |
| YY | Bi-color |

### LED 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 |

### VOLTAGE

| | |
|---|---|
| 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 |

* please refer to the forward voltage in electrical specifications

### SEALING

| | |
|---|---|
| (Blank) | Unsealed |
| E | IP67 |

## ABOUT THIS SERIES

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

- Gold faston terminal denotes anode (+), silver terminal denotes cathode (-)
- 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
- 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 V in DC only.
- Take care when soldering to the faston terminals (recommended solder temperature 300 °C - 3 sec)
- Short body options are only available up to 24 VDC.

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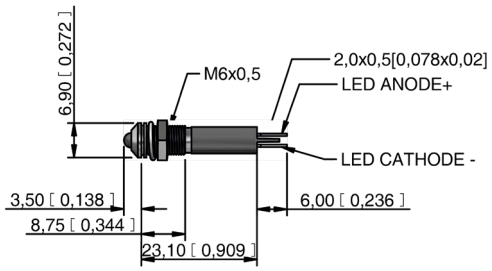
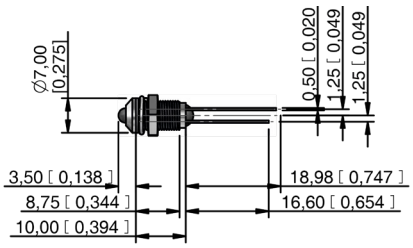
## PROMINENT BEZEL

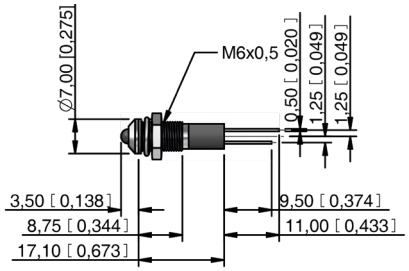
## SOLDER LUG/FASTON



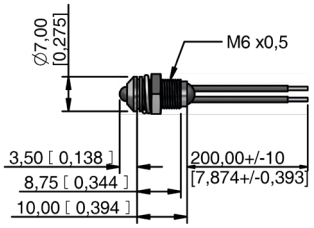

## WIRES




## PINS




## REAR EPOXY WIRES

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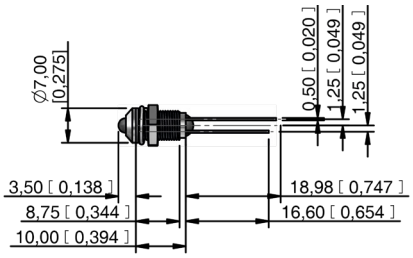
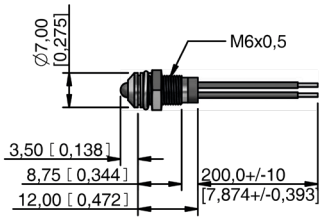



## SHORT BODY WIRES

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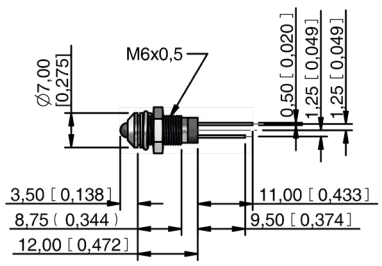

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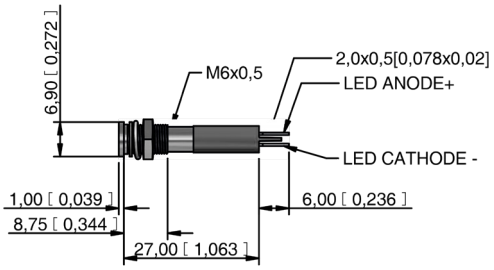
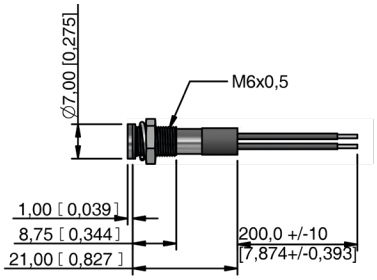
## FLUSH BEZEL

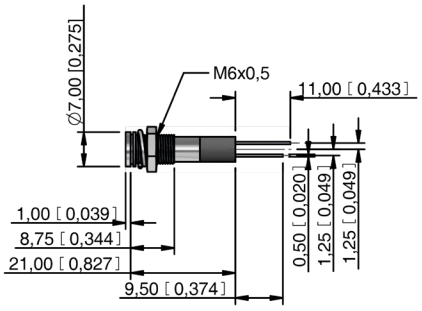
## SOLDER LUG/FASTON




## WIRES




## PINS

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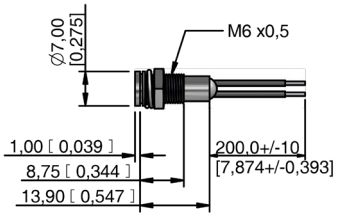


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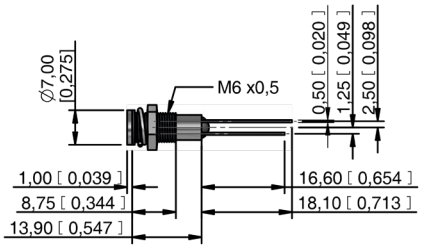
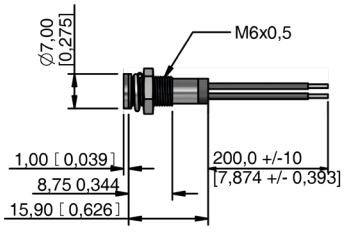



## SHORT BODY WIRES

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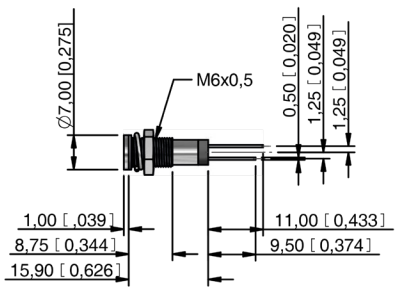

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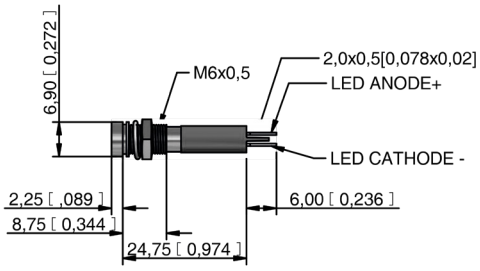
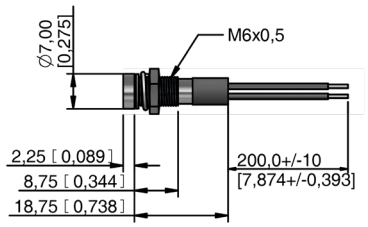
## RECESSED BEZEL

## SOLDER LUG/FASTON




## WIRES

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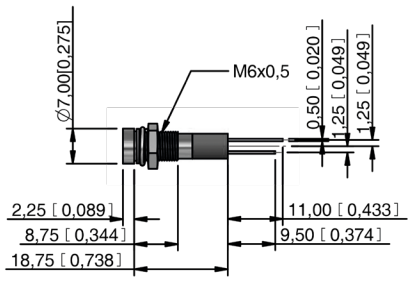


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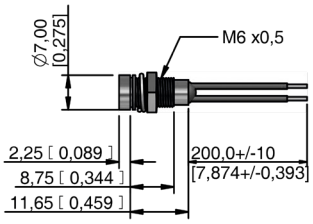


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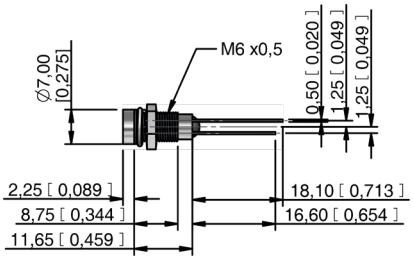
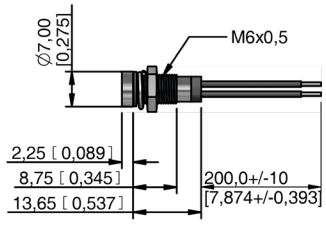
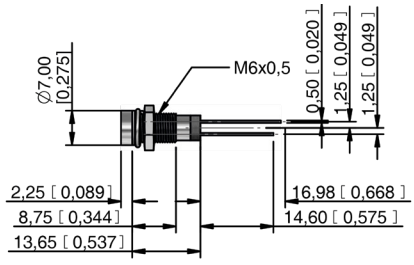



## SHORT BODY WIRES

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