

## FEATURES

- Voltage of 2 V DC
- Red LED (light-emitting diode) indicator light
- Needs a 6 mm mounting hole
- Lens of 3 mm
- Lead wires
- IP67 rated so dirt and water-resistant
- Flush bezel
- Black chrome
- Current rating of 20mA
- Intensity of 10 mcd (millicandela)
- Length of 15.9 mm
- Coloured diffused epoxy lens or water clear super bright LEDs
- Operating temperature range: -40 to +85°C

## RS PRO Red Indicator, 2 V dc, 6mm Mounting Hole Size, Lead Wires Termination, IP67

RS Stock No.: 700-1842



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

### Product Description

This RS PRO 2 V DC red indicator will provide you with a clear signal in dark conditions. The unit includes an LED bulb with a 3 mm coloured epoxy lens that gives 10 mcd (millicandela) of luminosity, plus a black chrome flush bezel. This type of lamp is usually used in industrial equipment like switches and push-buttons.

You can expect this lamp to be durable, as the LED bulb will last 10,000 hours. What's more, it's highly energy-efficient, making it a good choice for dark environments. It comes with a fixing nut, spring washer and lead wire terminations so you can install it easily. This unit needs a mounting hole size of 6 mm and is 15.9 mm long.

### General Specifications

|                             |  |
|-----------------------------|--|
| <b>Light Output Colour</b>  | Red  |
| <b>Lamp Type</b>            | LED  |
| <b>Termination Type</b>     | Lead Wires   |
| <b>Type</b>                 | Panel Mount  |
| <b>Bezel Style</b>          | Flush  |
| <b>Bezel Colour</b>         | Black Chrome   |
| <b>Intensity</b>            | 10mcd  |
| <b>Type of Illumination</b> | Fixed Light  |
| <b>LED Colour</b>           | Red  |
| <b>Viewing Angle</b>        | 30°–100° (dependant on model)  |
| <b>Life Expectancy</b>      | 100,000 hours  |
| <b>Applications</b>         | Industrial settings, including the food processing, transportation and marine industries |

### Electrical Specifications

|                       |      |
|-----------------------|------|
| <b>Voltage Rating</b> | 2VDC |
| <b>Current Rating</b> | 20Ma |

**Mechanical Specifications**

|                    |        |
|--------------------|--------|
| Mounting Hole Size | 6mm    |
| Length             | 16.9mm |
| Shape              | Round  |
| Lamp Size          | 3mm    |

**Operation Environment Specifications**

|                    |               |
|--------------------|---------------|
| Temperature Rating | -40°C to 85°C |
|--------------------|---------------|

**Protection Category**

|           |      |
|-----------|------|
| IP Rating | IP67 |
|-----------|------|

**Approvals**

|                           |                |
|---------------------------|----------------|
| Compliance/Certifications | RoHS Compliant |
|---------------------------|----------------|



| TECHNICAL SPECIFICATIONS |                                   |  |
|--------------------------|-----------------------------------|--|
| Voltage                  | Operating Voltage<br>(Min to Max) | Operating Current<br>(Typical All Types) |
| 02 (No Resistor)         | 1.8 to 3.8VDC                     | 20mA max*                                |
| 6VDC                     | 5.4 to 6.6VDC                     | 20mA                                     |
| 12VDC                    | 10.8 to 13.2VDC                   | 20mA                                     |
| 24VAC/DC                 | 21.6 to 26.4VDC                   | 20mA                                     |
| 28VDC                    | 25.2 to 30.8VDC                   | 20mA                                     |

|  |
|--|
| <b>Max Reverse Voltage:</b> 5V                               |
| <b>Viewing Angle:</b> 30–100° (dependant on model)           |
| <b>Life Expectancy:</b> 100,000 hours                        |
| <b>Temperature Range:</b> –40 to +85°C (operating & storage) |
| <b>Torque:</b> 4cNm  |
|  |

| Standard LED Intensity  | Prominent and Recessed | Flush    | Forward Voltage |
|---|------------------------|----------|-----------------|
| HE Red  | 40mcd                  | 10mcd    | 2.0V            |
| Green   | 50mcd                  | 12mcd    | 2.2V            |
| Yellow  | 30mcd                  | 6mcd     | 2.1V            |
| Blue  | 1,200mcd               | 100mcd   | 3.8V            |
| White   | 1,200mcd               | 160mcd   | 3.8V            |
| 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 LED  | Prominent and Recessed | Flush    | Forward Voltage |
| HE Red  | 1,000mcd               | 700mcd   | 2.2V            |
| Green   | 1,200mcd               | 2,000mcd | 3.5V            |
| Yellow  | 2000mcd                | 8,000mcd | 2.3V            |
| Blue  | 1,600mcd               | 200mcd   | 3.3V            |
| White   | 1,200mcd               | 350mcd   | 3.3V            |
| Orange  | 10,000mcd              | 500mcd   | 2.2V            |
|   |                        |          |                 |
| Hyper Bright LED  | 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.  
 LED characteristics are dependent upon environmental conditions. Therefore published data should be considered nominal.

Technical Drawings

FLUSH BEZEL

