

## Line laser, red, 650 nm, 90°, 25 mW

LG650-25-3(14x45)  
Order Number: 70122893

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 650 |     | nm   |
| Optical Output Power  |     | 25  |     | mW   |
| Operating Voltage     | 2.7 | 3   | 3.3 | V DC |
| Operating Current     | 90  | 120 | 150 | mA   |
| Operating Temperature | -10 |     | 40  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

|          |         |
|----------|---------|
| Warranty | 1 years |
|----------|---------|

### Technical Parameters

|          |           |
|----------|-----------|
| Lifetime | > 5,000 h |
| RoHS     | yes       |

### Optical Parameters

|                    |                   |
|--------------------|-------------------|
| Beam Shape         | Line              |
| Laser Class        | 2M                |
| Divergence         | G - 0.8 mrad      |
| Fan Angle          | 90°               |
| Line Thickness     | <2mm@3m           |
| Operating Distance | 3 m               |
| Optics             | acryl lense       |
| Laser technology   | Single Mode Diode |
| Focus              | fixed (3000mm)    |

### Electrical Parameters

|                          |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Potential of Housing     | isolated                                                                                                       |
| Power Supply             | Power Supply with stripped/tinned wires, Output: 3.3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3.3W max. |
| Stripping of cable cover | 50 mm                                                                                                          |

### Mechanical Parameters

|                   |                                                |
|-------------------|------------------------------------------------|
| Size              | Ø14x45 mm                                      |
| Material          | aluminium                                      |
| Cable length      | 1,000 mm                                       |
| Wire type         | Belden, AWG 28, 2.20mm, SK-20554-604(2CX28AWG) |
| Output Aperture   | 5 mm                                           |
| Housing Color     | black                                          |
| Weight            | 18 g                                           |
| Stripping of wire | 5 mm                                           |

(\*) Over the complete operating temperature range

### Features



- Laser Class 2M
- Low power consumption
- Uniform line thickness
- Image processing

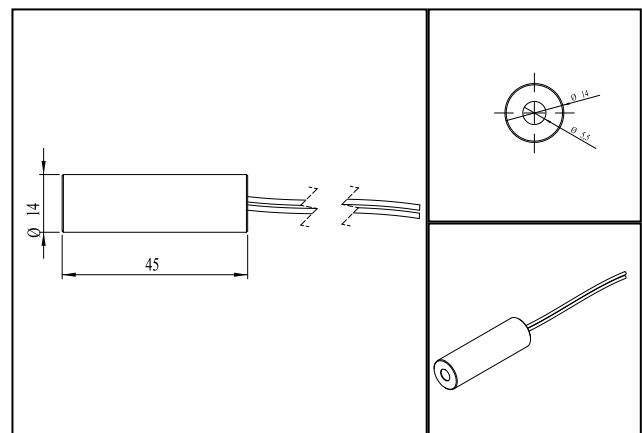
### Picture



### Cable color

|          |                                                                                     |       |                       |
|----------|-------------------------------------------------------------------------------------|-------|-----------------------|
| Ground   |   | black | GND                   |
| Positive |  | red   | 2.7 - 3.3, typ 3 V DC |

### Drawing



### Safety Label



### Valid Revision

| 20-JUL-2020