

## Line laser, red, 635 nm, 90 °, 1 mW

LB635-1-3(16x45)  
Order Number: 70109818

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 635 |     | nm   |
| Optical Output Power  |     | 1   |     | mW   |
| Operating Voltage     | 2.7 | 3   | 3.3 | V DC |
| Operating Current     | 15  | 27  | 45  | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

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

### Technical Parameters

|          |            |
|----------|------------|
| Lifetime | > 10,000 h |
| RoHS     | yes        |

### Optical Parameters

|                    |                      |
|--------------------|----------------------|
| Beam Shape         | Line                 |
| Laser Class        | 1                    |
| Divergence         | B - 0.3 mrad         |
| Fan Angle          | 90 °                 |
| Line Thickness     | <1mm@1m              |
| Operating Distance | 1 m                  |
| Optics             | glass lens AR coated |
| Laser technology   | Single Mode Diode    |
| Focus              | fixed (1000mm)       |

### Electrical Parameters

|                      |          |
|----------------------|----------|
| Potential of Housing | isolated |
| Power Supply         | LFNT-3   |

### Mechanical Parameters

|                   |                         |
|-------------------|-------------------------|
| Size              | Ø16x45 mm               |
| Material          | aluminium               |
| Cable length      | 100 mm                  |
| Wire type         | Belden, Typ 1007, 26AWG |
| Output Aperture   | 6.8 mm                  |
| Housing Color     | black                   |
| Weight            | 23.5 g                  |
| Stripping of wire | 5 mm                    |

(\*) Over the complete operating temperature range

## Features



- Operating Voltage 3 V DC
- Laser Class 1
- Fan angle 90 °
- Uniform line thickness
- Compact size

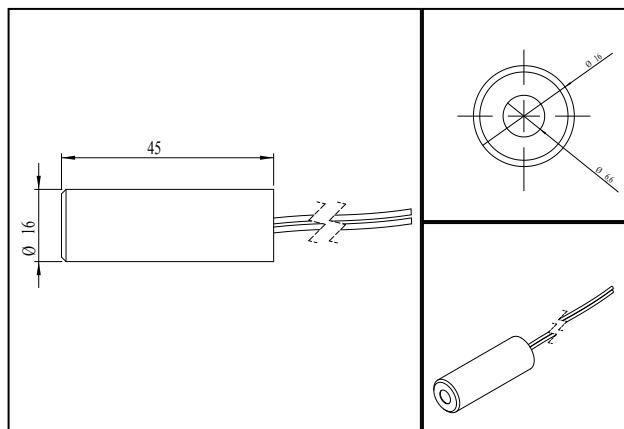
## Picture



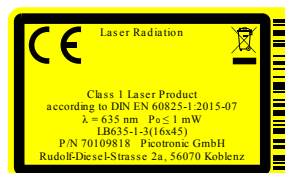
## Cable color

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

## Drawing



## Safety Label



## Valid Revision

5 | 27-MAY-2015