Laser pointer

**Model Number**

M18-2500-RT-LAS-P/92

Laser pointer with 4-pin, M12 x 1 connector

**Features**

- Visible red light, pulsed LASER light
- Laser class 1, eyesafe

**Dimensions**

**Electrical connection**

<table>
<thead>
<tr>
<th>Option</th>
<th>Pinout</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UB</td>
</tr>
<tr>
<td>2</td>
<td>n. c.</td>
</tr>
<tr>
<td>3</td>
<td>0 V</td>
</tr>
<tr>
<td>4</td>
<td>n. c.</td>
</tr>
</tbody>
</table>

Wire colors in accordance with EN 60947-5-2

1. BN (brown)
2. WH (white)
3. BU (blue)
4. BK (black)

**M18-2500-RT-LAS-P/92**

Refer to “General Notes Relating to Pepperl+Fuchs Product Information”.

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Laser pointer

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Technical data

General specifications

- Effective detection range: 0 ... 2.5 m
- Threshold detection range: 18 m
- Light source: laser diode
- Light type: modulated visible red light

Laser nominal ratings

- Laser class: 1
- Wave length: 650 nm
- Beam divergence: 1.5 mrad
- Pulse length: 15 µs
- Repetition rate: 10 kHz
- max. pulse energy: < 10.2 nJ
- Diameter of the light spot: approx. 2.5 mm at detection range 2.5 m

Optical face: frontal

Functional safety related parameters

- MTTF_d: 520.4 a
- Mission Time (T_M):
- Diagnostic Coverage (DC): 0 %

Electrical specifications

- Operating voltage: U_B: 10 ... 30 V DC
- Ripple: 10 %
- No-load supply current: I_0: emitter ≤ 25 mA

Ambient conditions

- Ambient temperature: 0 ... 50 °C (32 ... 122 °F)
- Storage temperature: -40 ... 85 °C (-40 ... 185 °F)

Mechanical specifications

- Degree of protection: IP65
- Connection: 4-pin, M12 x 1 connector
- Material:
  - Housing: brass, nickel-plated
  - Optical face: glass
  - Connector: metal
- Mass: 45 g

Compliance with standards and directives

- Standard conformity:
  - Shock and impact resistance: IEC / EN 60068, half-sine, 30 g in X, Y and Z direction
  - Vibration resistance: IEC / EN 60068-2-6. Sinus. 10 -150 Hz, 5 g in each X, Y and Z directions
  - Laser class: IEC 60825-1:2007

Approvals and certificates

- CCC approval
- CCC approval / marking not required for products rated ≤36 V

Laser notice laser class 1

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Maintenance and repairs should only be carried out by authorized service personnel!
- Attach the device so that the warning is clearly visible and readable.
- The warning accompanies the device and should be attached in immediate proximity to the device.
- Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laserlabel

CLASS 1 LASER PRODUCT

IEC 60825-1:2007 certified.
Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

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Accessories

CPZ18B03
Mounting Bracket with swivel nut

OMH-VL18
Mounting Bracket with swivel nut

BF 18
Mounting flange, 18 mm

BF 18-F
Mounting flange with dead stop, 18 mm

BF 5-30
Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

V1-G-2M-PVC
Female cordset, M12, 4-pin, PVC cable

V1-G-2M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-G-5M-PVC
Female cordset, M12, 4-pin, PVC cable

V1-G-5M-PUR
Female cordset, M12, 4-pin, PUR cable

V1-W-5M-PUR
Female cordset, M12, 4-pin, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com