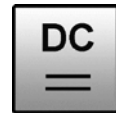
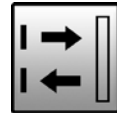
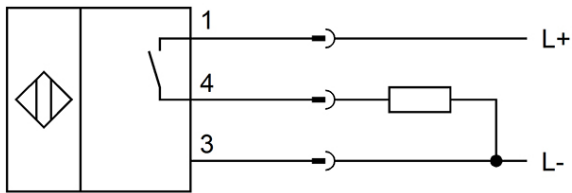


**OT08E185****Optical sensors****Diffuse reflection sensors**

- / stainless steel housing
- / degree of protection IP67
- / small light spot
- / low current consumption

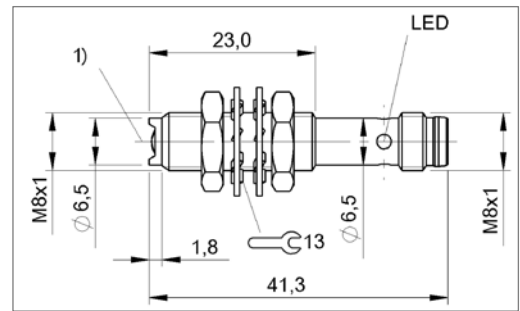
**visible red light  
thread M8x1****TECHNICAL DATA**

|                                         |                        |
|-----------------------------------------|------------------------|
| sensing range                           | 1 ... 60mm             |
| output signal                           | pnp, no                |
| operating voltage                       | 10 ... 30V DC          |
| current consumption (w/o load)          | ≤ 15mA                 |
| output current (max. load)              | 100mA                  |
| voltage drop (max. load)                | 0.7V                   |
| power on delay                          | 20ms                   |
| transmitting element                    | LED, red light         |
| wavelength                              | 645nm                  |
| sampling frequency                      | 500Hz                  |
| turn on- / turn off delay               | 1ms                    |
| display (signal)                        | LED yellow             |
| display (stability)                     | LED yellow flashing    |
| short-circuit protection                | +                      |
| Reverse polarity protection             | +                      |
| design                                  | M8x1                   |
| length (thread / total)                 | 21.3mm / 41.3mm        |
| housing material                        | stainless steel 1.4305 |
| lens material                           | PMMA                   |
| operating temperature                   | -5 ... +55°C           |
| degree of protection (EN 60529)         | IP67                   |
| connection                              | M8-connector, 3-pin    |
| connection accessories                  | e.g. <b>VK200075</b>   |
| mounting accessories (universal holder) | <b>AY000115</b>        |

**Connection**

**Colors:** 1 = BN (brown), 3 = BU (blue), 4 = BK (black)

**Functions:** 1 = L+, 3 = L-, 4 = PNP NO

**Dimensional drawing**

1) Optical axis

**SAFETY WARNINGS:**

Exempt group according to IEC 62471:2008

**DO NOT STARE INTO THE LIGHT BEAM! Danger of glare and irritation!**

The sensor must be installed so, that no direct looking into the light source is possible even during operation.

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these articles in applications where the safety of a person depends on their functionality.