

1) Emitter, 2) Receiver, 3) Optical axis



**Basic features**

|                        |                             |
|------------------------|-----------------------------|
| Approval/Conformity    | CE<br>WEEE                  |
| Basic standard         | IEC 60947-5-2               |
| Principle of operation | Optical sensor head         |
| Reference base unit    | BAE SA-OH-029-...           |
| Series                 | G04                         |
| Style                  | Cylinder<br>Straight optics |

**Electrical connection**

|                  |   |
|------------------|---|
| Cable diameter D | 1.80 mm   |
| Cable length L   | 1 m   |
| Connection       | Cable with connector, M8x1-Male,<br>1.00 m, PUR |

**Environmental conditions**

|                     |             |
|---------------------|-------------|
| Ambient temperature | -10...55 °C |
| Protection degree   | IP65        |

**Material**

|                          |                 |
|--------------------------|-----------------|
| Housing material         | Stainless steel |
| Material jacket          | PUR             |
| Material sensing surface | PMMA            |

**Remarks**

For additional information, refer to user's guide.

**Mechanical data**

|           |                                |
|-----------|--------------------------------|
| Dimension | $\varnothing 4 \times 11.7$ mm |
| Mounting  | Diameter 4.0 mm                |

**Optical features**

|                                |                              |
|--------------------------------|------------------------------|
| Beam characteristic            | divergent, max. 2.5°         |
| LED group per IEC 62471        | Exempt Group                 |
| Light spot size                | $\varnothing 8$ mm at 100 mm |
| Light type                     | microSPOT-LED red light      |
| Principle of optical operation | Through-beam sensor          |
| Smallest part typ.             | 0.40 mm                      |
| Wave length                    | 645 nm                       |

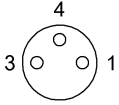
**Output/Interface**

|                  |                         |
|------------------|-------------------------|
| Switching output | for switching amplifier |
|------------------|-------------------------|

**Range/Distance**

|                             |         |
|-----------------------------|---------|
| Range                       | 0...2 m |
| Rated operating distance Sn | 2000 mm |

## Connector Drawings



## Opto Symbols

