

1) Emitter, 2) Receiver, 3) Light array



### Basic features

|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Approval/Conformity</b>    | CE<br>UKCA<br>cULus<br>WEEE           |
| <b>Basic standard</b>         | IEC 60947-5-2                         |
| <b>Principle of operation</b> | Optical sensor head                   |
| <b>Reference base unit</b>    | BAE SA-OH-059-...                     |
| <b>Scope of delivery</b>      | 1 Emitter + 1 Receiver<br>User manual |
| <b>Style</b>                  | Square<br>Connection 90°              |

### Electrical connection

|                                    |  |
|------------------------------------|--|
| <b>Cable diameter D</b>            | 1.7 mm   |
| <b>Cable length L</b>              | 1 m  |
| <b>Connection</b>                  | Cable with connector, M8x1-<br>Female, 3-pin, 1 m, PUR |
| <b>Contact, surface protection</b> | Gold plated  |

### Environmental conditions

|                            |             |
|----------------------------|-------------|
| <b>Ambient temperature</b> | -10...55 °C |
| <b>IP rating</b>           | IP67        |

### Functional safety

|                     |        |
|---------------------|--------|
| <b>MTTF (40 °C)</b> | 6342 a |
|---------------------|--------|

### Material

|                                 |      |
|---------------------------------|------|
| <b>Housing material</b>         | PA 6 |
| <b>Material jacket</b>          | PUR  |
| <b>Material sensing surface</b> | PMMA |

### Mechanical data

|                      |                |
|----------------------|----------------|
| <b>Dimension</b>     | 11 x 9 x 25 mm |
| <b>Mounting part</b> | Screw M3 (2x)  |

### Optical features

|                                       |                     |
|---------------------------------------|---------------------|
| <b>Blind zone</b>                     | 5 mm                |
| <b>LED group per IEC 62471</b>        | Exempt Group        |
| <b>Light type</b>                     | LED infrared        |
| <b>Principle of optical operation</b> | Through-beam sensor |
| <b>Smallest part typ.</b>             | 0.15 mm             |
| <b>Special optical feature</b>        | Light array         |
| <b>Wave length</b>                    | 850 nm              |

### Range/Distance

|                                    |             |
|------------------------------------|-------------|
| <b>Active length AL 1</b>          | 10 mm       |
| <b>Range</b>                       | 10...300 mm |
| <b>Rated operating distance Sn</b> | 300 mm      |
| <b>Resolution</b>                  | 1 % FS      |

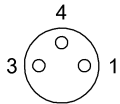
## Remarks

For additional information, refer to user's guide.

For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

## Connector Drawings



## Opto Symbols

