

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



### Basic features

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

### Electrical connection

|                             |  |
|-----------------------------|--|
| Cable diameter D            | 1.7 mm   |
| Cable length L              | 2 m  |
| Connection                  | Cable with connector, M8x1-<br>Female, 3-pin, 2 m, PUR |
| Contact, surface protection | Gold plated  |

### Environmental conditions

|                     |             |
|---------------------|-------------|
| Ambient temperature | -10...55 °C |
| IP rating           | IP67        |

### Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 472 a |
|--------------|-------|

### Material

|                          |                            |
|--------------------------|----------------------------|
| Housing material         | Aluminium, anodized, black |
| Material jacket          | PUR                        |
| Material sensing surface | PMMA                       |
| Surface protection       | anodized, black            |

### Mechanical data

|               |                  |
|---------------|------------------|
| Dimension     | 22 x 14 x 320 mm |
| Mounting part | Screw M4 (2x)    |

### Optical features

|                                |                     |
|--------------------------------|---------------------|
| LED group per IEC 62471        | Exempt Group        |
| Light type                     | LED infrared        |
| Principle of optical operation | Through-beam sensor |
| Smallest part typ.             | 4.5 mm              |
| Special optical feature        | Light array         |
| Wave length                    | 940 nm              |

### Range/Distance

|                             |             |
|-----------------------------|-------------|
| Active length AL 1          | 300 mm      |
| Range                       | 10...500 mm |
| Rated operating distance Sn | 500 mm      |
| Resolution                  | 1 % FS      |

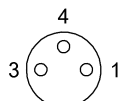
## Remarks

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

