



Photoelectric Sensors  
**BOS 64K-AA-ID10-TG**  
Order Code: BOS01K2

**BALLUFF**

Environmental conditions

|                         |                                            |
|-------------------------|--------------------------------------------|
| Ambient temperature     | -25...55 °C                                |
| EN 60068-2-27, Shock    | Half-sinus, 30 g <sub>n</sub> , 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 10...55 Hz, amplitude 0.5 mm, 3x30 min     |
| IP rating               | IP67                                       |

Functional safety

|              |       |
|--------------|-------|
| MTTF (40 °C) | 289 a |
|--------------|-------|

Interface

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Duration of time function | T = 0.6...16 s                                                    |
| Switching output          | Relay NO/NC change-over contact                                   |
| Time function             | switch-off delay<br>On/off delay<br>Turn-on delay<br>Single pulse |

Material

|                          |           |
|--------------------------|-----------|
| Housing material         | PBT, GF30 |
| Material sensing surface | PC        |

Remarks

Reference object (target): gray card, 200 x 200, 90 % remission, axial approach.  
For additional information, refer to user's guide.  
Order accessories separately.  
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.

Mechanical data

|                        |                      |
|------------------------|----------------------|
| Dimension              | 25 x 69.7 x 100.4 mm |
| Mounting part          | Screw M4             |
| Tightening torque max. | 1.2 Nm               |

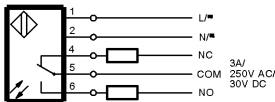
Optical features

|                                |                           |
|--------------------------------|---------------------------|
| Ambient light max.             | 5000 Lux                  |
| Beam characteristic            | Divergent                 |
| LED group per IEC 62471        | Exempt Group              |
| Light type                     | Infrared                  |
| Principle of optical operation | Diffuse sensor, energetic |
| Switching function, optical    | Light-on<br>dark-on       |
| Wave length                    | 940 nm                    |

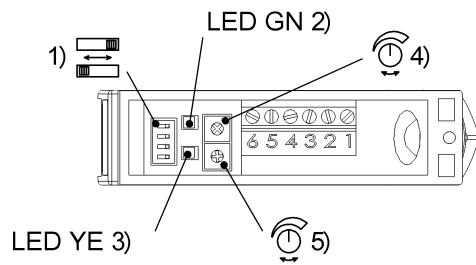
Range/Distance

|                                         |                |
|-----------------------------------------|----------------|
| Range                                   | 50...2000 mm   |
| Rated operating distance S <sub>n</sub> | 2 m Adjustable |

Wiring Diagrams



## Help Views



- 1) Light-on/dark-on, time funct
- 2) Stability
- 3) Output function
- 4) Sensitivity
- 5) Delay time

## Opto Symbols

