

Photoelectric Sensors
BOS 18KF-NA-1QD-C-02
 Order Code: BOS00J6



Environmental conditions

| | |
|-------------------------|----------------------------------------|
| Ambient temperature | -25...55 °C |
| EN 60068-2-27, Shock | Half-sinus, 30 gn, 11 ms, 3x6 |
| EN 60068-2-6, Vibration | 10...55 Hz, amplitude 0.5 mm, 3x30 min |
| Protection degree | IP67 |

Functional safety

| | |
|--------------|-------|
| MTTF (40 °C) | 774 a |
|--------------|-------|

Material

| | |
|--------------------------|------|
| Housing material | PBT |
| Material jacket | PVC |
| Material sensing surface | PMMA |

Mechanical data

| | |
|------------------------|-----------------------|
| Dimension | Ø 18 x 77 mm |
| Mounting | Nut M18x1 Screw M3 |
| Tightening torque max. | 1.5 Nm |

Optical features

| | |
|--------------------------------|------------------------|
| Ambient light max. | 5000 Lux |
| Blind zone | 100 mm |
| Light type | LED, red light |
| Polarizing filter | yes |
| Principle of optical operation | Retroreflective sensor |
| Switching function, optical | dark-on |
| Wave length | 660 nm |

Output/Interface

| | |
|------------------|-------------------------------------------|
| Switching output | NPN normally open (NO) NPN NC Pins 4-2 |
|------------------|-------------------------------------------|

Range/Distance

| | |
|-----------------------------|------------------|
| Range | 0...4.5 m |
| Rated operating distance Sn | 4.5 m Adjustable |

Remarks

Polarizing filters prevent spurious switching due to reflecting and shiny parts.

For additional information, refer to user's guide.

Order accessories separately.

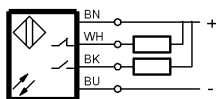
The sensor is functional again after the overload has been eliminated.

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

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.

Wiring Diagrams



Opto Symbols

