1) Optical axis, 2) Output function, 3) Stability, 4) Sn

**Display/Operation**
- **Adjuster**: Potentiometer 270°
- **Display**: Output function - LED yellow, Stability - LED green
- **Setting**: Sensitivity (Sn)

**Electrical connection**
- **Connection**: Connector
- **Polarity reversal protected**: yes
- **Short-circuit protection**: yes

**Electrical data**
- **No-load current Io max. at Ue**: 35 mA
- **Operating voltage Ub**: 10...30 VDC
- **Rated insulation voltage Ui**: 75 V DC
- **Rated operating current Ie**: 100 mA
- **Rated operating voltage Ue DC**: 24 V
- **Ripple max. (% of Ue)**: 8 %
- **Switching frequency**: 1000 Hz
- **Turn-off delay toff max.**: 0.5 ms
- **Turn-on delay ton max.**: 0.5 ms
- **Voltage drop Ud max. at Ie**: 2 V

**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
- **IP rating**: IP67
Photoelectric Sensors
BOS 18KF-PA-1QD-S4-C
Order Code: BOS00K3

Functional safety
MTTF (40 °C) 634 a

Mechanical data
Dimension Ø 18 x 81.5 mm
Mounting Screw M3
Nut M18x1
Tightening torque max. 1.5 Nm

General data
Approval/Conformity
CE
cULus
EAC
WEEE

Optical data
Ambient light max. 5000 Lux
Blind zone 100 mm
Light type LED, red light
Polarizing filter yes
Principle of optical operation Retroreflective sensor
Wave length 660 nm

Output/Interface
Switching output PNP normally open (NO)
PNP NC Pins 4-2

Material
Housing material PBT
Material sensing surface PMMA

Remarks
The sensor is functional again after the overload has been eliminated.
Polarizing filters prevent spurious switching due to reflecting and shiny parts.
For additional information, refer to user’s guide.
Order accessories separately.
Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.
For further information about the 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

Wiring Diagrams
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<thead>
<tr>
<th>Opto Symbols</th>
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<tbody>
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<td><img src="image" alt="Opto Symbol" /></td>
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