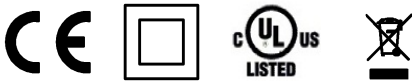


1) Optical axis, 2) Stability, 3) Output function, 4) Removable cover



**Basic features**

<b>Approval/Conformity</b>	cULus CE WEEE
<b>Basic standard</b>	IEC 60947-5-2
<b>Principle of operation</b>	Photoelectric sensor
<b>Reference emitter</b>	BOS 64K-AA-IS10-TG
<b>Series</b>	64K
<b>Style</b>	Square Connection 45°

**Display/Operation**

<b>Adjuster</b>	Potentiometer 240° (2x) Slide switch (4x)
<b>Display</b>	Output function- LED yellow Stability - LED green
<b>Setting</b>	Time function Light-on/dark-on Rated switching distance (Sn)

**Electrical connection**

<b>Cable diameter D</b>	8...10 mm
<b>Connection</b>	Screw terminals
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

**Electrical data**

<b>No-load current I<sub>o</sub> max. at U<sub>e</sub></b>	25 mA
<b>Operating voltage U<sub>b</sub></b>	24...60 VDC/24...240 VAC
<b>Protection class</b>	II
<b>Rated insulation voltage U<sub>i</sub></b>	250 V AC
<b>Rated operating current I<sub>e</sub></b>	3000 mA
<b>Rated operating voltage U<sub>e</sub> AC</b>	230 V
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Switching frequency</b>	20 Hz
<b>Turn-off delay t<sub>off</sub> max.</b>	25 ms
<b>Turn-on delay t<sub>on</sub> max.</b>	25 ms
<b>Utilization category</b>	AC-140

Photoelectric Sensors  
**BOS 64K-AA-IE10-TG**  
**Order Code: BOS01K4**



**Environmental conditions**

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

**Functional safety**

<b>MTTF (40 °C)</b>	349 a
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**Interface**

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

**Material**

<b>Housing material</b>	PBT, GF30
<b>Material sensing surface</b>	PC

**Mechanical data**

<b>Dimension</b>	25 x 69.7 x 100.4 mm
<b>Mounting part</b>	Screw M4
<b>Tightening torque max.</b>	1.2 Nm

**Optical features**

<b>Ambient light max.</b>	5000 Lux
<b>Light type</b>	Infrared
<b>Principle of optical operation</b>	Through-beam sensor (receiver)
<b>Switching function, optical</b>	Light-on dark-on

**Range/Distance**

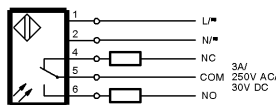
<b>Range</b>	0...50 m
<b>Rated operating distance S<sub>n</sub></b>	50 m Adjustable

**Remarks**

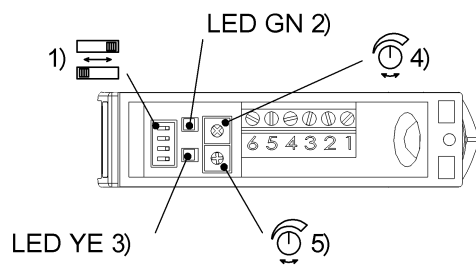
Order accessories separately.  
 Actuation object (target): gray card, 200 x 200, lateral approach.  
 For additional information, refer to user's guide.  
 For more information about MTTF and B10d see MTTF / B10d Certificate

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.

**Wiring Diagrams**



## Help Views



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

## Opto Symbols

