

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



IND. CONT. EQ
 1TD4
 for use in the secondary of
 a class 2 source of supply



Basic features

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

Display/Operation

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

Electrical connection

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

Electrical data

No-load current I _o max. at U _e	25 mA
Operating voltage U _b	24...60 VDC/24...240 VAC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	3000 mA
Rated operating voltage U _e AC	230 V
Rated operating voltage U _e DC	24 V
Ripple max. (% of U _e)	10 %
Switching frequency	20 Hz
Turn-off delay t _{off} max.	25 ms
Turn-on delay t _{on} max.	25 ms
Utilization category	AC-140

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



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)	349 a
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Material

Housing material	PBT, GF30
Material sensing surface	PC

Mechanical data

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

Optical features

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

Output/Interface

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

Range/Distance

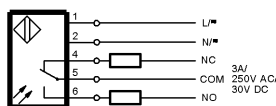
Range	0...50 m
Rated operating distance Sn	50 m Adjustable

Remarks

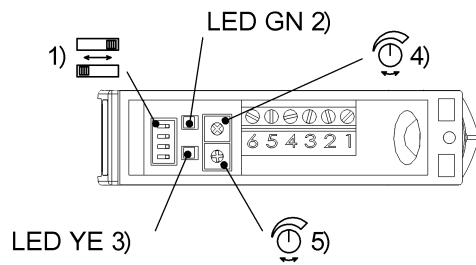
Order accessories separately.
 Actuation object (target): gray card, 200 x 200, lateral approach.
 For additional information, refer to user's guide.
 For more information about MTTF and B10d see MTTF / B10d Certificate

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

