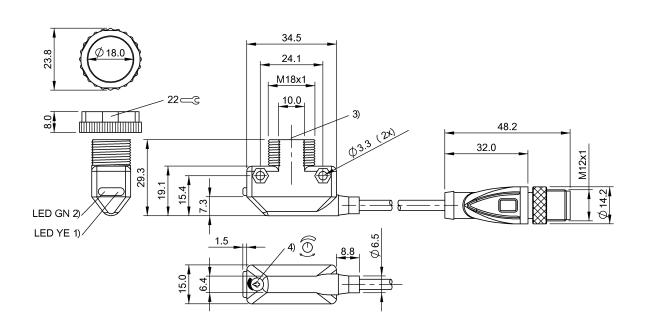
BOS 11K-PA-ID10-00,15-S4

Ordercode: BOS012P





1) Output function 2) Operating voltage 3) Optical axis 4) Sn









Displav/Operati	on.

Adjuster Potentiometer 270°

Display Output function- LED yellow LED green: Power

Setting Rated switching distance (Sn)

Electrical connection

Connection Cable with connector, M12x1-Male, 4-pole

Polarity reversal protected yes

Protection against device mix-ups yes

Short-circuit protection yes

Electrical data

No-load current lo max. at Ue 25 mA Operating voltage Ub 10...30 VDC Protection class Ш 75 V DC Rated insulation voltage Ui 100 mA Rated operating current le Rated operating voltage Ue DC 24 V Ready delay tv max. 200 ms Residual current Ir max. 100 µA

Internet www.balluff.com
Balluff Germany +49 (0) 7158 173-0, 173-370
Balluff USA 1-800-543-8390
Balluff China +86 (0) 21-50 644131

Ripple max. (% of Ue) 10 %
Switching frequency 500 Hz
Turn-off delay toff max. 1 ms
Turn-on delay ton max. 1 ms
Voltage drop Ud max. at le 2 V

Environmental conditions

Ambient temperature -20...55 °C
EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms, 3x6
EN 60068-2-6, Vibration 10...55 Hz, amplitude 1 mm, 3x30 min
Protection degree IP67

Functional safety

MTTF (40 °C) 561 a

General data

Approval/Conformity

CE
cULus
EAC
WEEE

Basic standard

Principle of operation

CE
cULus
EAC
Photoelectric sensor

For definitions of terms, see main catalog Subject to change without notice [227057] eCl@ss 9.1: 27-27-09-03 ETIM 6.0: EC001821 BOS012P_0.18_2019-01-21 Photoelectric Sensors

BOS 11K-PA-ID10-00,15-S4

Ordercode: BOS012P



Series Style

tyle Square Connection 90°

11K

Trademark Global

Material

Housing material ABS
Material sensing surface PMMA

Mechanical data

 Dimension
 15 x 44.8 x 29.3 mm

 Mounting
 Screw M3

Nut M18x1

Optical data

Ambient light max. 10000 Lux
Beam characteristic Divergent
Light type Infrared

Principle of optical operation Diffuse sensor, energetic Switching function, optical Light/dark switching

Wave length 950 nm

Output/Interface

Switching output PNP normally open (NO)

PNP NC Pins 4-2

Range/Distance

Range 10...450 mm
Rated operating distance Sn 450 mm Adjustable

Remarks

Order accessories separately.

For additional information, refer to user's guide.

Only for applications per NFPA 79 (machines with a supply voltage of maximum 600 V). Use an R/C (CYJV2) cable with suitable properties for attaching the device.

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach

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

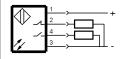
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector view



Wiring Diagram



Symbols for Optoelectronic Sensors

