

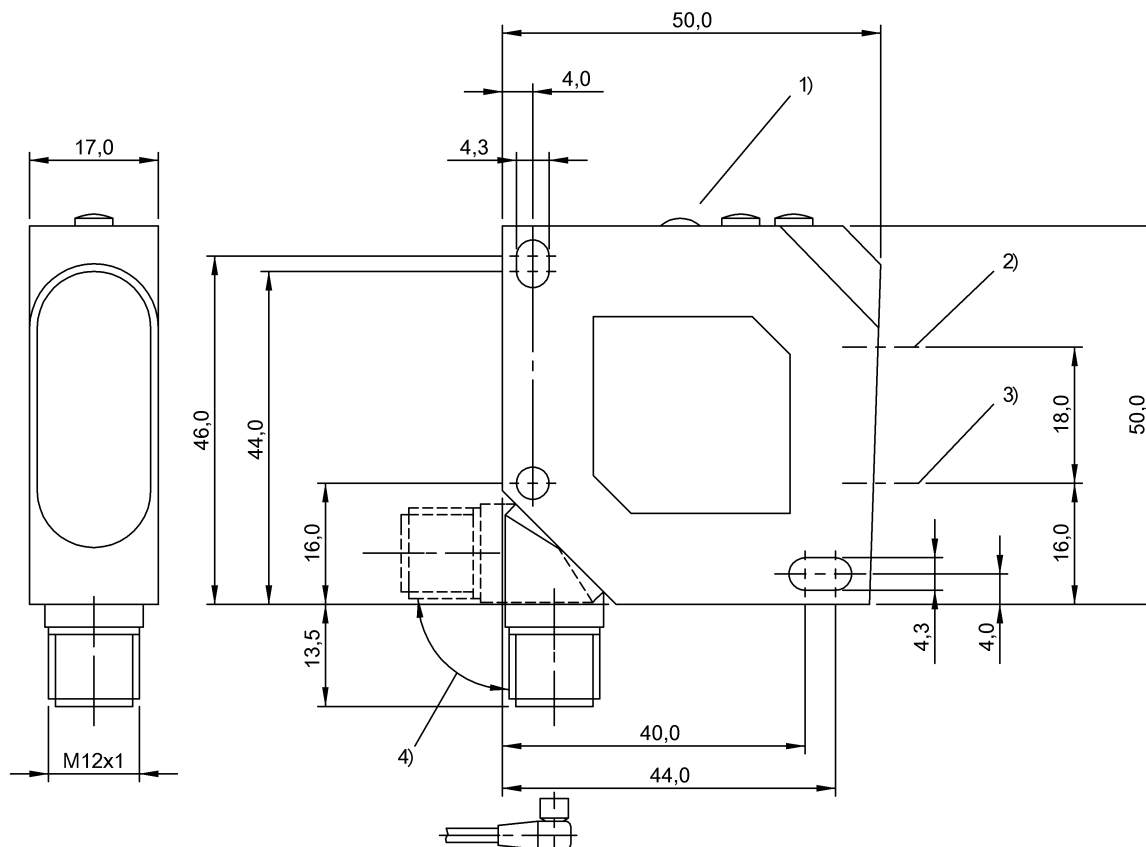
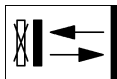
BOS 26K-PA-1LHB-S4-C
Ordering code: BOS008E

Diffuse sensor
 Series 26K
 Working range: 30-150 mm

PNP (2x), NO-NC (pins 4-2)
 Laser red light, Laserklasse 2
 DC, direct current

BALLUFF

sensors worldwide



1) Display and control panel, 2) Optical axis receiver, 3) Optical axis emitter, 4) 270° rotatable

Characteristic data

Degree of protection as per IEC 60529	IP67
Protection class	II
Short-circuit protected	yes
Protected against polarity reversal	yes
Indicator	Switching dist. - dig. disp.
Setting	Switching distance (S _n)
Adjuster	Potentiometer 2-turn (1x)
Switching freq. f max.	2500 Hz

Optical data

Principle of optical operation	Light scanner, triangulation
Switching function, optical	NO light-on - NC dark-on
Light spot size, typical	Ø0.1 mm at focal point
Light type	Laser red light
Wavelength	670 nm
Ambient light max.	5,000 Lux
Laser class per IEC 60825-1	2
Average power P _o max.	< 1 mW (IEC 60825-1)
Optical special feature	Background suppression

Electrical data

Operating voltage	10...30 V DC
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Rated operating voltage U_e DC

Effective operating current I_e

Rated insulation voltage U_i

Utilisation category

Ripple max. (% of U_e)

Switching output

Switching function

Turn-off delay t_{off} max.

Turn-on delay t_{on} max.

No-load current max. I_o at U_e

Voltage drop U_d max. (at I_e)

Hyster. H 18% max. (% v. S_r)

24 V

200 mA

75 V DC

DC 13

10 %

PNP (2x)

NO-NC (pins 4-2)

0,2 ms

0,2 ms

50 mA

2,5 V

5 %

Mechanical data

Connector type

Eff. switching distance S_r

Shock rating

Vibration rating

Ambient temperature

Sensing surface material

Housing material

Mounting type

Design

Dist. dev. 18% max. (% of S_r)

M12x1-S04

150 mm

Half-sinus, 30gn, 11ms, 3x6

10-55 Hz, 0.5mm ampl., 3x30min

-20...45 °C

PMMA

ABS

Screw M4

Block, rotatable connection

8 % with 90 % rem.

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Capture range Sd	30...150 mm
Beam characteristic	Focus typ. at 80 mm
Range Sn	Sn = 150 mm, adjustable
Minimum operating distance	30 mm

Basic data

Connection	Connector, M12x1-S04
Basic standard	IEC 60947-5-2

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

Reference object (target): Gray card, 200 x 200, 90 % remission, axial approach.

With connector, e.g. BKS-S 20-... total length = switch length +18 mm.

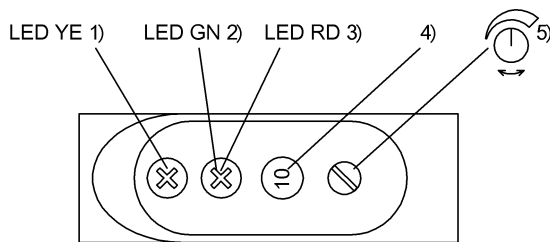
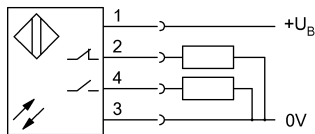
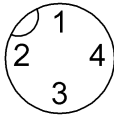
Only for NFPA 79 applications (machines with a supply voltage of maximum 600 volts). Device shall be connected only by using any R/C (CYJV2) cord, having suitable ratings.

Order accessories separately.

For additional information, refer to user's guide.



LISTED IND. CONT. EQ. 77HA
for use in the secondary of
a class 2 source of supply



- 1) Output function
- 2) Stability
- 3) Error
- 4) Switching dist. dig. displ.
- 5) Sensitivity