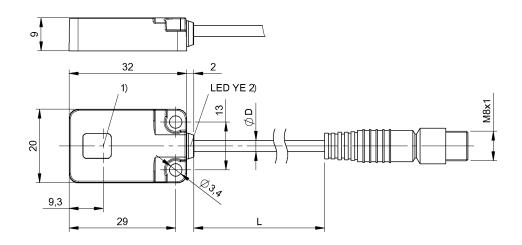
BOS R01E-PS-KE20-00,2-S49

Order Code: BOS021N





1) Optical axis receiver, 2) Output function



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Basic features	
Approval/Conformity	CE
	UKCA
	cULus
	Ecolab
	WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Reference emitter	BOS R01E-X-KS20
Series	R01E
Style	Square
	Connection 90°

Display/Operation

Display	Limit range - LED yellow, flashing
	LED yellow: Light received

Electrical connection

Cable diameter D	3.00 mm
Cable length L	0.2 m
Connection	Cable with connector, M8x1-Male,
	3-pin, 0.20 m, PUR
Contact, surface protection	Gold plated
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.05 μF
No-load current lo max. at Ue	10 mA
Operating voltage Ub	1030 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	150 ms
Residual current Ir max.	50 μΑ
Switching frequency	500 Hz
Turn-off delay toff max.	1 ms
Turn-on delay ton max.	1 ms
Utilization category	DC -13
Voltage drop Ud max. at le	0.7 V

Environmental conditions

Subject to change without notice: 270677

LITALIONI TICITALI CONTAINONS	
Ambient temperature	-555 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms, 3x6 Half-sinus, 100 gn, 2 ms, 3x8000
EN 60068-2-6, Vibration	1055 Hz, amplitude 1 mm, 3x30 min ₁₀ 2000 Hz, amplitude 1 mm, 30 gn, 3x5 h
IP rating	IP67
IP rating per DIN 40050	Housing IP69K, Connector IP67
Functional safety	
MTTF (40 °C)	2536 a

Photoelectric Sensors

BOS R01E-PS-KE20-00,2-S49



Order Code: BOS021N

witching output	PNP normally open (NO)
1aterial	
lousing material	1.4404 stainless steel
Naterial jacket	PUR
laterial sensing surface	PA
lechanical data	
imension	20 x 32 x 9 mm
Mounting part	Screw M3

Optical features

Ambient light max. 5000 Lux Light type LED, red light Principle of optical operation Through-beam sensor Smallest part typ. 0.4 mm at 1 m. R0 = 2 mSwitching function, optical dark-on Range/Distance

Range 0...2.2 m Rated operating distance Sn 2.2 m Temperature drift max. (% of Sr) 10 %

Remarks

Interface

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

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

For additional information, refer to user's guide.

Order accessories separately.

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 Drawings

Wiring Diagrams		
+ 4 + 3 + -		

Opto Symbols		
-		