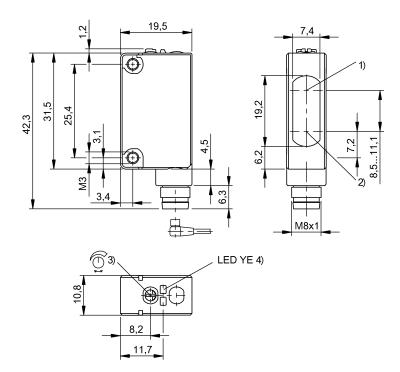
Photoelectric Sensors BOS 5K-PS-RH12-S75 Order Code: BOS012A





1) Optical axis receiver, 2) Optical axis emitter, 3) Sn, 4) Output function

cULus

CE

EAC

5K

Square Connection 90°

Global

WEEE UKCA

IEC 60947-5-2

Photoelectric sensor

6-turn potentiometer Output function- LED yellow

Rated switching distance (Sn)



Basic features Approval/Conformity

Basic standard

Series

Style

Trademark

Adjuster

Display Setting

Principle of operation

Display/Operation

Connection Polarity reversal protected Short-circuit protection

Electrical data

Electrical connection

No-load current lo max. at Ue	30 mA
Operating voltage Ub	1030 VDC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms
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

yes

yes

Connector, M8x1-Male, 4-pin

Photoelectric Sensors BOS 5K-PS-RH12-S75 Order Code: BOS012A

BALLUFF

Ambient temperature	-2555 °C	Dimension	10.8 x 43.2 x 19.5 mm
EN 60068-2-27, Shock	Half-sinus, 50 g _n , 11 ms, 3x10	Mounting part	Screw M3
EN 60068-2-6, Vibration	1055 Hz, amplitude 0.75 mm, 3x20 min	Optional footures	
IP rating	IP67	Optical features	
		Ambient light max.	5000 Lux
Functional safety		Beam characteristic	Focus, typical at 60 mm
Functional Salety		Light spot size	Ø 5 mm at 60 mm
MTTF (40 °C)	21 a	Light type	LED, red light
		Principle of optical operation	Diffuse sensor, triangulation
Interface		Special optical feature	Background suppression
Switching output	PNP normally open (NO) Pin 4	Switching function, optical	Light-on
		Wave length	660 nm
Material		Range/Distance	
Housing material	PC	Rangerbistanee	
-	PBT	Range	40200 mm
Material sensing surface	PMMA	Rated operating distance Sn	200 mm Adjustable

Mechanical data

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.

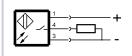
For more information about MTTF and B10d see MTTF / B10d Certificate

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 Drawings



Wiring Diagrams



Opto Symbols

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