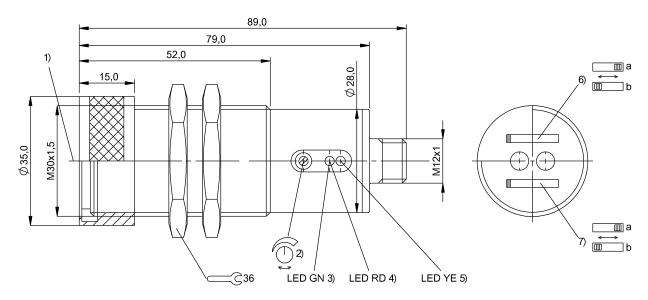
# BOS 30M-GA-1PH-S4-C Order Code: BOS0134

# **BALLUFF**



1) Optical axis, 2) Sn, 3) Operating voltage, 4) Error, 5) Light reception, 6) a= 1x Sn / b= 0.5x Sn, 7) a= Dark-on / b= Light-on







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Additional features	Base unit for fiber optics cable BFO 18	
Approval/Conformity	CE cULus WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Photoelectric sensor	
Series	30M	
Style	Cylinder Straight optics	

### Display/Operation

Adjuster	18-turn potentiometer
Display	LED green: Power
	Error - LED red
	LED yellow: Light received
Setting	Rated switching distance (Sn)

## **Electrical connection**

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Short-circuit protection	yes

#### **Electrical data**

Load capacitance max. at Ue	1 μF
No-load current lo max. at Ue	50 mA
Operating voltage Ub	1130 VDC
Output resistance Ra	22.0 kOhm
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Switching frequency	15 Hz
Turn-off delay toff max.	33 ms
Turn-on delay ton max.	33 ms
Voltage drop Ud max. at le	2.5 V

### **Environmental conditions**

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Ambient temperature	-555 °C	
IP rating	IP65	
Functional safety		
MTTF (40 °C)	5 a	
Interface		
Switching output	NPN normally open/normally	
	closed (NO/NC)	

PNP normally open/normally closed (NO/NC)

### **Photoelectric Sensors**

# BOS 30M-GA-1PH-S4-C **Order Code: BOS0134**

# BVLLUFF

#### Material

Housing material Brass, nickel-plated

Material sensing surface Glass Surface protection nickel-plated

Mechanical data

Dimension Ø 36 x 89 mm Mounting part Nut M30x1.5 40 Nm Tightening torque max.

### **Optical features**

Ambient light max. 1000 Lux Beam characteristic Divergent Light type Infrared

Principle of optical operation Diffuse sensor, energetic Switching function, optical Light/dark switching Wave length 880 nm

### Range/Distance

Hysteresis H max. (% of Sr) 15.0 % 200...2000 mm Rated operating distance Sn 2 m Adjustable Temperature drift max. (% of Sr) 10 %

### Remarks

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

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

For additional information, refer to user's guide.

Order accessories separately.

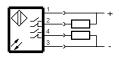
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



### **Opto Symbols**



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