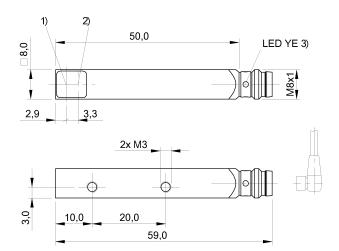
BOS Q08M-PS-KD20-S49 Order Code: BOS01RJ

BALLUFF



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



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Approval/Conformity	cULus	
	CE	
	UKCA	
	EAC	
	WEEE	
Basic standard	IEC 60947-5-2	
Principle of operation	Photoelectric sensor	
Series	Q08M	
Style	Square	
	Connection 90°	

Display/Operation

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

Electrical connection

Connection	Connector, M8x1-Male, 3-pin
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	0.5 μF
No-load current lo max. at Ue	15 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.	20 ms
Ripple max. (% of Ue)	10 %
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

Ambient temperature	-555 °C
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
Functional safety	
MTTF (40 °C)	997.4 a

Photoelectric Sensors

BOS Q08M-PS-KD20-S49 **Order Code: BOS01RJ**



Interface

Switching output PNP normally open (NO) Material Housing material Zinc, Die casting, nickel-plated Material sensing surface PMMA Surface protection nickel-plated

Mechanical data

Dimension 8 x 59 x 8 mm Mounting part Screw M3

Optical features

Beam characteristic Divergent LED group per IEC 62471 **Exempt Group** Light spot size Ø 3.0 mm Light exit Light type LED, red light Principle of optical operation Diffuse sensor, energetic Light-on Switching function, optical Wave length 645 nm

Range/Distance

1...60 mm Rated operating distance Sn 60 mm

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

Actuation object (target): gray card, 200 x 200, 90 % remission, lateral approach, approach direction vertical to lens axis plane.

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

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

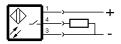
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Subject to change without notice: 233076

Connector Drawings



Wiring Diagrams



Opto Symbols

