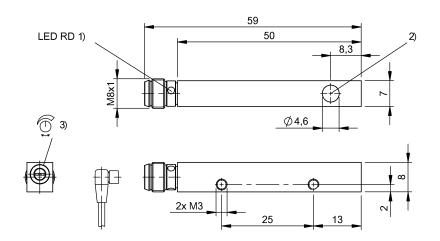
BOS R040M-PS-RD10-S49 Order Code: BOS01W1

BALLUFF



1) Function indicator, 2) Optical axis, 3) Sn



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Application	Object detection
Approval/Conformity	CE
	WEEE
	EAC
Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	R040M
Style	Connection 90°
	Square

Display/Operation

Adjuster	1-turn potentiometer	
Display	Output function - LED red	
	Limit range - LED red, flashing	
Setting	Rated switching distance (Sn)	

Electrical connection

Connection	Connector, M8x1-Male, 3-pin	
Contact, surface protection	Gold plated	
Electrical version	3-wire	
Polarity reversal protected	yes	
Protection against device mix-ups	yes	
Short-circuit protection	yes	

Electrical data

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
Switching frequency	500 Hz
Turn-off delay toff max.	1.0 ms
Turn-on delay ton max.	1.0 ms
Voltage drop Ud max. at le	2.5 V

Environmental conditions

Ambient temperature	-1055 °C
IP rating	IP65

Material

Dimension

Mounting

Housing material	Brass, nickel plated
Housing material, surface protection	nickel plated
Material sensing surface	PMMA
Mechanical data	

Screw M3

59 x 7 x 8 mm

Photoelectric Sensors

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Optical features

Ambient light max. 5000 Lux Beam characteristic Divergent LED group per IEC 62471 Exempt Group Light type LED, red light Principle of optical operation Diffuse sensor, energetic

Switching function, optical Light-on Output/Interface

Switching output PNP normally open (NO)

Range/Distance

Range 0...50 mm Rated operating distance Sn

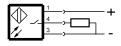
50 mm Adjustable

Remarks

Reference object (target): gray card, 100 x 100, 90 % remission, axial approach.

Connector Drawings

Wiring Diagrams



Opto Symbols

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