

Basic features

Approval/Conformity	CE cULus UKCA WEEE
Principle of operation	Photoelectric sensor
Scope of delivery	Mounting bracket
Series	R81K

Display/Operation

Display	supply voltage - LED green
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Electrical connection

Connection	Connector, M12x1-Male, 4-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes

Electrical data

Operating voltage Ub	10...30 VDC
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 ms

Environmental conditions

Ambient temperature	-15...60 °C
IP rating	IP67

Functional safety

MTTF (40 °C)	390 a
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Material

Housing material	ABS PMMA
Material sensing surface	PMMA

Mechanical data

Mounting part	M18x1 Screw M3 (2x)
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Optical features

Light type	Infrared
Principle of optical operation	Through-beam sensor (Emitter)
Wave length	850 nm

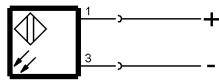
Range/Distance

Range	0.3...20 m
Rated operating distance Sn	20 m

Photoelectric Sensors
BOS R81K-X-IS10-S4
Order Code: BOS028Y

BALLUFF

Wiring Diagrams



1) Emitter

Opto Symbols

