

#### Basic features

Approval/Conformity	CE cULus UKCA WEEE
Principle of operation	Photoelectric sensor
Scope of delivery	Mounting bracket
Series	R81K
Style	Square with M18 Bullnose

#### Display/Operation

Display	supply voltage - LED green
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#### Electrical connection

Cable diameter D	3.9 mm
Cable length L	2 m
Connection	Cable, 2 m, PVC
Number of conductors	2
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 jacket	PVC
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

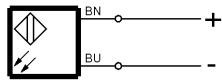
#### Range/Distance

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

Photoelectric Sensors  
BOS R81K-X-IS10-02  
Order Code: BOS028T

# **BALLUFF**

## Wiring Diagrams



## Opto Symbols

