

### 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

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

### Electrical data

Operating voltage $U_b$	10...30 VDC
Rated operating voltage $U_e$ DC	24 V
Ready delay $t_v$ 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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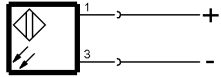
### Optical features

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 $S_n$	20 m

## Wiring Diagrams



1) Emitter

## Opto Symbols

