

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	Output function- LED yellow 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	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	25 mA
Operating voltage U_b	10...30 VDC
Rated operating current I_e	100 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	100 ms
Voltage drop U_d max. at I_e	1.8 V

Environmental conditions

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

Functional safety

MTTF (40 °C) 529 a

Interface

Switching output NPN normally open (NO)

Material

Housing material	ABS
	PMMA
Material jacket	PVC
Material sensing surface	PMMA

Mechanical data

Dimension	15 x 48.9 x 31 mm
Mounting part	Thread M18x1
	Screw M3 (2x)

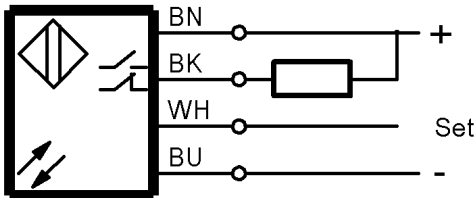
Optical features

Ambient light max.	10000 Lux
Light spot size	8 x 8 mm at 100 mm
Light type	LED, red light
Principle of optical operation	Triangulation
Wave length	660 nm

Range/Distance

Hysteresis H max.	5 %
Range	100 mm
Rated operating distance Sn	100 mm

Wiring Diagrams



Opto Symbols

