

### 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
---------	---

### 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	PNP 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)

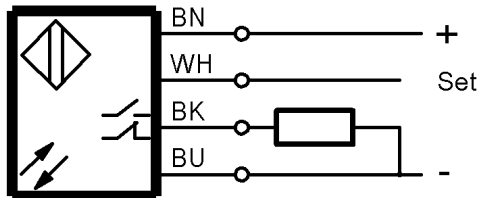
## Range/Distance

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

## 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

## Wiring Diagrams



## Opto Symbols

