



1) Optical axis receiver 2) Optical axis emitter 3) Sn 4) Output function

- Photoelectric sensor
- Series 5K
- LED, red light
- up to 200 mm



General attributes

Adjuster	Potentiometer 6-turn (1x)
Approvals / Conformity	cULus CE
Basic standard	IEC 60947-5-2
Enclosure Type per IEC 60529	IP67
Indicator	Output function - LED YE
Polarity reversal protected	yes
Series	Series 5K
Setting	Switching distance (Sn)
Short circuit protected	yes
Trademark	GLOBAL

Electrical attributes

Connection type	Cable
Eff. operating current Ie	100 mA
Eff. operating voltage Ue DC	24.0 V
Electrical version	DC, direct current
No-load current max. Io at Ue	30 mA
Operating voltage UB max. DC [V]	30.0 V
Operating voltage UB min. DC [V]	10.0 V
Ripple max. (% of Ue)	10 %
Switching freq. f max. (at Ue)	500 Hz
Switching function	NO
Switching output	PNP (1x)
Turn on time ton max.	1.00 ms
Voltage drop Ud max. (at Ie)	2.0 V

Mechanical attributes

Ambient temperature Ta max.	55 °C
Ambient temperature Ta min.	-25 °C
Cable diameter D max.	3.5 mm

Cable jacket material	PVC
Cable length	2.00 m
Conductor cross-section	0.20 mm ²
Detection range Sd	20...200 mm
Eff. operating distance Sr	200 mm
Housing material	PC, PBT
Length 1	10.8 mm
Length 2	19.5 mm
Length 3	26.8 mm
Minimum operating distance	10 mm
Mounting type	Screw M3
Number of conductors	3
Range Sn	Sn = 200 mm, adjustable
Sensing face material	PMMA
Style	Block, 45° connection

Optical attributes

Ambient light max.	5,000 Lux
Light type	LED, red light
Optical special feature	Background suppression
Principle of optical operation	Light scanner, triangulation
Switching function, optical	NO: light-on
Wavelength	660 nm

Additional text

Order accessories separately.
For additional information, refer to user's guide.
Reference object (target): Gray card, 100 x 100

90 % remission, axial approach.
The sensor is functional again after the overload has been eliminated.

Photoelectric sensor

BOS 5K-PS-RH12-02
BOS0129

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