

1) Optical axis receiver, 2) Optical axis emitter, 3) Sn, 4) Output function, 5) stability



Basic features

Basic standard	IEC 60947-5-2
Principle of operation	Photoelectric sensor
Series	5K
Trademark	Global

Electrical connection

Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.20 mm ²
Connection	Cable, 2.00 m, PVC
Number of conductors	3
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

No-load current I_0 max. at U_e	30 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
Ripple max. (% of U_e)	10 %
Switching frequency	500 Hz
Voltage drop U_d max. at I_e	2 V

Environmental conditions

Ambient temperature	-25...55 °C
EN 60068-2-27, Shock	Half-sinus, 50 g _n , 11 ms, 3x10
IP rating	IP67

Functional safety

MTTF (40 °C)	38 a
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Interface

Switching output NPN normally open (NO)

Material

Housing material PC
PBT
Material jacket PVC
Material sensing surface PMMA

Mechanical data

Dimension 10.8 x 32.7 x 19.5 mm
Mounting part Screw M3

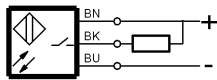
Optical features

Ambient light max. 5000 Lux
Beam characteristic Divergent
Light type Infrared
Principle of optical operation Diffuse sensor, energetic
Switching function, optical Light-on
Wave length 880 nm

Range/Distance

Range 0...900 mm
Rated operating distance S_n 900 mm Adjustable

Wiring Diagrams



Opto Symbols

