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PRK 8

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Retro-reflective photoelectric sensors with autocollimation

Dimensioned drawing



- The autocollimation principle used ensures that the device functions reliably over the entire range (0 ... max.)
- A²LS active suppression of extraneous light
- Push-pull switching outputs
- M12 turning connector or cable connection
- Visible red light



20









- A Transmitter/receiver
- B Optical axis
- C Operational control
- **D** LED yellow
- E 90° turning connector

Electrical connection





Accessories:

- (available separately)
- M12 connectors (KD ...)
- Ready-made cables (K-D ...)
- Mounting systems
- Reflectors
- Reflective tapes
- Control guard

▲ Leuze electronic

Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) 1) 0 ... 7 m Operating range 2 Light source Wavelength Timing

Switching frequency Response time Delay before start-up

Electrical data

Operating voltage U_B Residual ripple Bias current Switching output/function

Signal voltage high/low Output current Sensitivity

Indicators

LED yellow LED yellow flashing

Mechanical data

Housing Optics cover Weight (plug/cable) Connection type

Environmental data

Ambient temp. (operation/storage) Protective circuit ⁴⁾ VDE safety class 5) Protection class 6) Light source Standards applied

see tables LED (modulated light) 660nm (visible red light)

1500Hz 0.33ms ≤ 100 ms

 $10 \hdots 30 VDC \leq 15 \ensuremath{\%}$ of U_B ≤35mA 2 push-pull switching outputs ³⁾ pin 2: PNP dark switching, NPN light switching pin 4: PNP light switching, NPN dark switching \geq (U_B-2V)/ \leq 2V max. 100mA adjustable with 12-turn potentiometer

light path free light path free, no performance reserve

metal glass 70g/140g M12 connector, 5-pin (turning)

-40°C ... +60°C/-40°C ... +70°C 2, 3 II, all-insulated IP 67, IP 69K 7) free group (in acc. with EN 62471) IEC 60947-5-2

- 1) Typ. operating range limit: max. attainable range without performance reserve
- 2) Operating range: recommended range with performance reserve
- 3) The push-pull switching outputs must not be connected in parallel
- 2=polarity reversal protection, 3=short-circuit protection for all outputs Rating voltage 250VAC 4)
- 5)
- In stop position of the turning connector (turning connector locked) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, 6) 7) acids and bases are not part of the test

Order guide

With M12 connector

Designation PRK 8/66.11-S12

Part No. 50037133

Tables

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Reflectors					Operating range		
1	TK(S)	100x100			05.0m		
2	MTK(S)	50x50.1			03.0m		
3	TK(S)	30x50			02.0m		
4	TK(S)	20x40			01.5m		
5	Tape 6	50x50			02.0m		
1	0					5.0	7.0
2	0				3.0	3,6	
3	0		2.0		2.4		
4	0	1.5		2.0			
5	0		2.0		2.4		
Operating range [m] Typ. operating range limit [m] TK = adhesive TKS = screw type Tape 2 = adhesive							

PRK 8

Diagrams



Remarks

• Approved purpose: This product may only be used by qualified personnel and must only be used for the approved purpose. This sensor is not a safety sensor and is not to be used for the protection of persons.