PRK 8

տոտու ... 2.4m 0 1,5 kHz 10 - 30 V DC

- Detection of transparent media (e. g. clear glass, PE, foil)
- The autocollimation principle used ensures that the device functions reliably over the entire range (0 ... max.)
- Push-pull switching outputs
- M12 turning connector
- Visible red light
- Square light spot



Accessories:

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

Retro-reflective photoelectric sensors

Dimensioned drawing











- Transmitter/receiver Α
- В Optical axis
- С Operational control
- D LED yellow

20

Е 90° turning connector

Electrical connection



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PRK 8

Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) 1) 0 ... 2.4m Operating range 2 Recommended reflector Light source Wavelength Light spot

Timing

Switching frequency Response time Delay before start-up

Electrical data

Operating voltage UB 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 Connection type

Environmental data

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

Options

L/D input Dark switching/light switching L/D delay

Typ. operating range limit: max. attainable range without performance reserve 1)

- Operating range: recommended range with performance reserve The push-pull switching outputs must not be connected in parallel 2) 3)
- 2=polarity reversal protection, 3=short-circuit protection for all outputs
- 4)

Rating voltage 250VAC 5)

6) In stop position of the turning connector (turning connector locked)

7) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, acids and bases are not part of the test

Order guide

With M12 connector

Designation PRK 8/66.41-S12 Part No. 50037134

see tables MTK(S) 50x50 LED (modulated light) 660nm (visible red light) square, focussed at 200mm

1500Hz 0.33ms ≤ 650ms

 $\begin{array}{l} 10 \ ... \ 30 \ VDC \\ \leq 15 \ \% \ of \ U_B \\ \leq 35 \ mA \end{array}$ \leq 35 mA 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. 100 mA adjustable with 12-turn potentiometer

light path free operating point of tape, PE - transition from flashing to continuous light light path free, no performance reserve

metal glass 70g 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

U_B/0V or not connected < 0.5 ms

Tables

labiee							
Reflectors					erating	range	
1	TK(S)	10	0x100	0.	0 2.0m		
2	MTK(S)	50) x50 .1	0.	01.5m		
3	TK(S)		30x50	0.	00.6m		
4	TK(S)		20x40	0.	00.6m		
5	Tape 6		50x50	0.	1.0m	I	
1	0				2.0	2.4	
2	0			1.5	1.8		
3	0	0.6	0.	3			
4	0	0.6	0.				
5	0		1.0	1.2			
	Operating range [m] * Typ. operating range limit [m] *						
*) For sensitivity set to operating point 3							
TK = adhesive TKS = screw type Tape 2 = adhesive							

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.

- **Reflectors:** • The light spot may not extend beyond the reflector. Preferably use MTK(S) reflectors or reflective tape 6.
- Note the light spot geometry and installation conditions