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Time 2

0...10s

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PRK 96



10m 18m

20-230 V (HF AC / DC A²LS

- Polarised retro-reflective photoelectric • sensor with large operating range in visible red light
- Robust metal housing with glass cover or plastic housing, protection class IP 67/ IP 69K for industrial application
- All-mains design 20 ... 230 VAC/DC with relay output
- Relay with change-over contact, sensitivity adjustment, delay before start-up and various options for optimal adaptation to the application
- Connection via comfortable terminal compartment up to 1.5mm²



Accessories:

- (available separately)
- Mounting systems
- (BT 96, BT 96.1, UMS 96, BT 450.1-96)
- Spark extinction
- Reflectors
- Reflective tapes

Dimensioned drawing



Retro-reflective photoelectric sensors with polarisation filter

- Α Indicator diode green
- в Indicator diode yellow
- С Receiver
- D Transmitter
- Е Optical axis
- F Screwed cable gland M16x1.5 for Ø 5 ... 10mm
- G Countersinking for SK nut M5, 4.2 deep
- н Connection terminals
- L Cable entry
- κ Sensitivity adjustment

Electrical connection





PRK 96

Tables

1	0	m	models	

10m models										
Re	Operating range									
1	TK(S)	100	x100	0.3		. 8r	n			
2	MTK(S)	5	0x50	0.3		. 7r	n			
3	TK(S)	3	0x50	0.3		. 4.	5m			
4	TK(S)	2	0x40	0.3		. 3r	n			
5	TK(S)		82	0.3		. 6r	n			
6	Tape 2	100	x100	0.3		. 4r	n			
1	0.1					8		10		
2	0.1				7	1	8.5			
3	0.1		4.5		5					
4	0.1	3	4							
5	0.1				6		7.5			
6	0.1		4	5.	.5					
18m models										

18m models										
Re	flectors		Operating range							
1	TK(S)	100	x100	0.3	. 15	īm				
2	MTK(S)	5	0x50	0.3	. 11	m				
3	TK(S)	3	0x50	0.3	. 6r	n				
4	TK(S)	2	0x40	0.3	. 5m					
5	TK(S)		82	0.3	. 11	m				
6	Tape 2	100	x100	0.3	. 6r	n				
1	0.1				15		18			
2	0.1			11		12				
3	0.1		6	7.5						
4	0.1	5	6							
5	0.1			11	1	1.5				
6	0.1		6	7.5						

Operating range [m] Typ. operating range limit [m]

Diagrams

10m models



18m models





Remarks

Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) 1)10m/18mOperating range 2)see tablesLight spot diameterapprox. 13Light sourceLED (modWavelength660nm (v

Timing

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Switching frequency Response time Delay before start-up

Electrical data

Operating voltage UB

Power consumption Switching output ³) Function characteristics Switching voltage, relay Switching current, relay Switching power, relay Sensitivity

Indicators

LED green 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 LED class Standards applied **Options**

Switching delay (slow oper./release)

10m/18m see tables approx. 130mm at 6m LED (modulated light) 660nm (visible red light, polarised)

20Hz 25ms ≤ 200ms

 $\begin{array}{l} 20 \hdown \\ 25 \hdown \\$

ready light path free light path free, no performance reserve

Metal housing

diecast zinc glass 380g terminals

-20°C ... +55°C/-40°C ... +55°C 1, 4 II, all-insulated IP 67, IP 69K $^{6)}$ 1 (acc. to EN 60825-1) IEC 60947-5-2

0 ... 10s (separately adjustable)

- 1) Typ. operating range limit: max. attainable range without performance reserve
- 2) Operating range: recommended range with performance reserve
- Suitable spark extinction must be provided with inductive or capacitive loads
- 4) 1=transient protection, 4=interference blanking
- 5) Rating voltage 250VAC
- 6) 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

Selection table	Order code →	PRK 96M/R-3420-25 Part No. 500 82066	PRK 96M/R-3430-25 Part No. 500 61111		
Housing	metal	•	•		
	plastic				
Light source	red light (8m)				
	red light (15m)	٠	٠		
	red light (20m)				
Connection	terminals	•	•		
	M12 connector				
Features	optics heating/low temperature				
	switching delay		•		