10

15.2 24

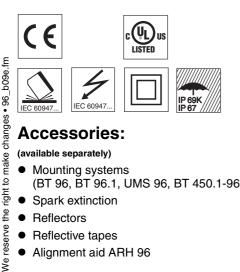
PRK 96

Retro-reflective photoelectric sensors with polarisation filter



20-230 V AC / DC

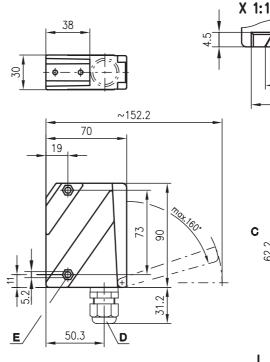
- Retro-reflective photoelectric sensor for safe detection of transparent media (e.g. clear glass, PE, foil)
- User controlled sensitivity adjustment with • high resolution
- The autocollimation principle used ensures • that the device functions reliably over the entire range (0 ... max.)
- All-mains design 20 ... 230 VAC/DC with relay output
- Connection via comfortable terminal compartment up to 1.5mm²

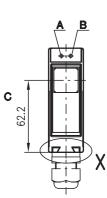


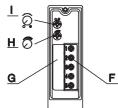
Accessories:

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

Dimensioned drawing

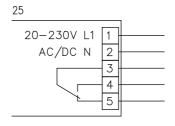






- Indicator diode green Α
- Indicator diode yellow в
- С Optical axis
- D Screwed cable gland M16x1.5 for Ø 5 ... 10mm
- Е Countersinking for SK nut M5, 4.2 deep
- F Connection terminals
- G Cable entry
- н Sensitivity adjustment
- Light/dark switching I.

Electrical connection



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PRK 96

Specifications

Optical data

Typ. operating range limit (TK(S) 50x50) $^{1)}$ Operating range $^{2)}$ Light source Wavelength

Timing

心

Switching frequency Response time Delay before start-up

Electrical data

Operating voltage U_B

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

Indicators

LED green LED yellow

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)

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

- 2) Operating range: recommended range with performance reserve
 3) Suitable spark extinction must be provided with inductive or capacitive loads
 4) 1=transient protection, 4=interference blanking

5) Rating voltage 250 VAC

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

0...8.5m see tables

20Hz

25ms

 $\leq 200\,ms$

250VAC/DC

Metal housing

diecast zinc glass 380g

II, all-insulated

IP 67, IP 69K ⁶⁾ 1 (acc. to EN 60825-1) IEC 60947-5-2

terminals

1, 4

ready

LED (modulated light)

 $\begin{array}{l} 20 \ ... \ 230 \ VAC; \ 50/60 \ Hz \\ 20 \ ... \ 230 \ VDC \ \pm \ 10 \ \% \\ \leq \ 1.5 \ VA \end{array}$

250VAC, 3A/30VDC, 3A

relay, 1 change-over contact light/dark switching (reversible)

750 VA, $\cos\varphi = 1$ adjustable with 10-turn potentiometer

transition from quickly flashing to slowly flashing coloured glass - adjustment range 2 transition from cont. illuminated to quickly flashing other - adjustment range 3 continuously illuminated

clear glass - adjustment range 1

-20°C ... +55°C/-40°C ... +55°C

0 ... 10s (separately adjustable)

660nm (visible red light/polarised)

Order guide

Designation PRK 96M/R-1858-25

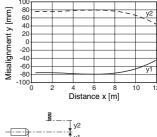
Part No. 500 29881

Tables

Re	eflectors	Operating range						
1	TK(S)	100	x100	07	'n			
2	MTK(S)	5	0x50	06	δm			
3	TK(S)	3	0x50	0 4	١m			
4	TK(S)	2	0x40	03	3.5r	n		
5	TK(S)		82	05	5m			
6	Tape 2	100	x100	03	ßm			
1	0.1				7		8.5	
2	0.1			6		7.5		
3	0.1		4	5				
4	0.1	3.5	4					
5	0.1		5	6				
6	0.1	3	3.5					
	_							
	Operating range [m]							
Typ. operating range limit [m]								
TK = adhesive TKS = screw type Tape 2 = adhesive								

Diagrams





Remarks

Objects	Adjustment (indicator LED yellow)
Clear glass, PE, foil	Range 1 Operating pt. 1
Coloured glass	Range 2 Operating pt. 2
Other	Range 3

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