RK 72

Retro-reflective photoelectric sensors





0 ... 6m



- Slim construction with glass lens and robust metal housing for protection against environmental influences
- LEDs as switching state indicators
- Output is short-circuit proof and polarity reversal protected, thus guaranteeing riskless commissioning
- Mounting holes and M4 threads for fast front side mounting
- Connection via M12 connector, plug or cable



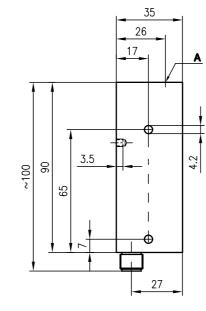


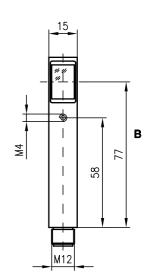
Accessories:

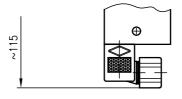
(available separately)

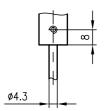
- Mounting systems (BT 92)
- M12 connectors (KD ...)
- Ready-made cables (KB ...)

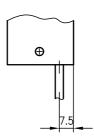
Dimensioned drawing











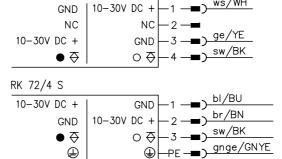
A Indicator diodeB Optical axis

RK 72/4 L

Electrical connection

RK 72/2		
10-30V DC +	GND ○ ♦ 10-30V DC +	ge/YE sw/BK ws/WH





RK 72

Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) 1) 0 ... 6m Operating range 2) see table

Light source Wavelength LED (modulated light) 880nm (infrared)

Timing

Switching frequency 100 Hz Response time

Electrical data

Operating voltage U_B 12 ... 30 VDC (incl. residual ripple) \leq 15 % of $U_B \leq$ 50 mA

Residual ripple

Bias current

Switching output

S SUTIA PNP or NPN transistor output light/dark switching by reversing the polarity ≥ (U_B-3V)/≤ 2V max. 100mA

Function characteristics Signal voltage high/low Output current

Indicators

LED red LED red flashing light path free

no performance reserve

Mechanical data

Housing Weight diecast 150g Optics Connection type

glass lens M12 connector 4-pin, plug 4-pin or cable (cross section

Environmental data

Ambient temp. (operation/storage)
Protective circuit 3) -20°C ... +60°C/-30°C ... +70°C

2, 3 Protection class IÝ 67

LED class 1 (acc. to EN 60825-1)

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

2) Operating range: recommended range with performance reserve
 3) 2=polarity reversal protection, 3=short circuit protection

Tables

Reflectors			Operating range
1	TK(S)	100x100	0.1 4m
2	MTK(S)	50x50	0.1 3.5m
3	TK(S)	30x50	0.1 2.5m
4	TK(S)	20x40	0.1 2m
5	Tape 2	100x100	0.1 3m

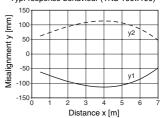
0.1						4		6
0.1					3.5		5	
0.1			2.5		3			
0.1		2		2.5				
0.1				3		3.5		
	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1 2	0.1 0.1 2.5 0.1 2	0.1 0.1 2.5 0.1 2 2.5	0.1 3.5 0.1 2.5 3 0.1 2 2.5	0.1 3.5 0.1 2.5 3 3 0.1 2 2.5 3	0.1 3.5 5 0.1 2.5 3 0.1 2 2.5

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

TK ... = adhesive TKS ... Tape 2 = screw type = adhesive

Diagrams

Typ. response behaviour (TKS 100x100)





Order guide

Selection table		96200	00413	, 5000 500 00415	17372	S 500 00419
Equipment Ψ	Order code -	0	RK 72/4 Part No. 500	RK 72/4,500 (Part No. 500	RK 72/4 L Part No. 500	RK 72/4 S Part No. 500
Light source	infrared	•	•	•	•	•
Connection	cable 2m	•	•			
	cable 5 m			•		
	cable 6m					
	M12				•	
	standard plug 4-pin					•
Indicator LED	top of housing	•	•	•	•	•
Features	light/dark by reversing the polarity	•	•	•	•	•

Remarks