RK 72

Energetic diffuse reflection light scanner

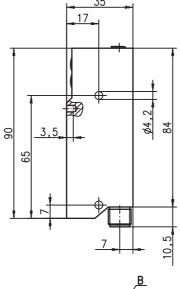




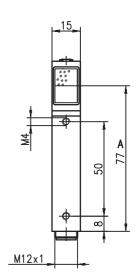
10 ... 200mm



- Robust metal housing with glass lens
- For the detection of paper, sleeve and adhesive labels on glass and PET bottles
- Sensitivity adjustment



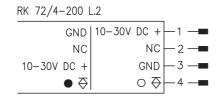
Dimensioned drawing





- A Indicator diode
- B Sensitivity adjustment

Electrical connection





Accessories:

(available separately)

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

RK 72

Specifications

Optical data

Typ. scanning range limit (white 90%) 1) 0 ... 340mm Scanning range 2) 0 ... 200mm Label scanning range ... 50mm LED (modulated light) 880nm (infrared)

Light source Wavelength

Timing

Switching frequency 150Hz Response time 3.3 ms

Electrical data

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

Residual ripple Open-circuit current ≤ 50 mA

PNP transistor output light/dark switching by reversing the polarity Switching output Function characteristics

≥ (U_B-3V)/≤ 2V max. 100mA Signal voltage high/low Output current

Sensitivity adjustable with 270° potentiometer

Indicators

Yellow LED reflection

Mechanical data

diecast Housing 150g glass lens M12 connector, 4-pin Weight Optics

Connection type

Fitting position inclined position 15° ± 5° (see fitting position drawing)

Environmental data

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

2, 3 IP 67 Protection class

Light source exempt group (in acc. with EN 62471)

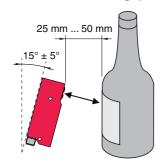
Standards applied IEC 60947-5-2

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

Scanning range: recommended range with performance reserve

3) 2=polarity reversal protection, 3=short circuit protection

Preferred fitting position



Order guide

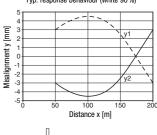
Selection table Equipment	Order code →	RK 72/4-200 L.2 Part No. 501 09617		
Light source	infrared	•		
Connection	cable 2 m			
	cable 5 m			
	cable 6 m			
	M12	•		
	4-pin standard plug			
Indicator LED	top of housing	•		
Features	label detection	•		
	sensitivity adjustment 270°	•		
	light/dark by reversing the polarity	•		

Tables

1	0	200		340		340		
2	8	140		2	250			
3	10 110			200				
1	white 90%							
2	grey 18%							
3	black 6%							
	Scanning range [mm]							
	Typ. scanning range limit [mm]							

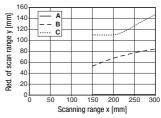
Diagrams

Typ. response behaviour (white 90%)





Typ. black/white behaviour



A white 90%

B grey 18%

C black 6%



Remarks

Intended use:

The diffuse reflection light scanners are optical electronic sensors for optical, contactless detection of objects.

Operate in accordance with intended use!

- ♥ This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- ♥ Only use the product in accordance with the intended use.
- Please note the preferred fitting position!
- There are bottle/contents/ label combinations which cannot be detected reliably

2014/06