RK 85

Energetic diffuse reflection light scanner





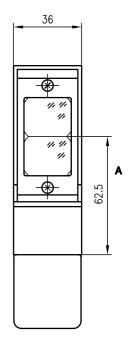
0 ... 0.3m 0 ... 0.8m 0 ... 2.0m

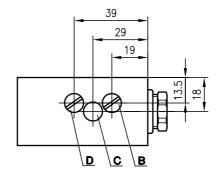


- AC version 230VAC with relay output
- General light/dark switching, sensitivity adjustment and delay before start-up provide for optimal adaptation to the application
- Connection via standard plug with screw connection up to 1.5 mm²

69 45 \bigcirc \oplus Ø4.5 8 88 ~140 **⊕** 28.5

Dimensioned drawing

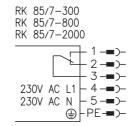




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- Optical axis Α
- В Sensitivity adjustment
- Indicator diode С
- Light/dark switching

Electrical connection











Accessories:

(available separately)

Mounting systems (BT 85)

RK 85

Specifications

Optical data

Scanning range (white 90 %) 1) 0 ... 300mm, 0 ... 800mm, 0 ... 2000mm Adjustment range

5 ... 100 % LED (modulated light) Light source

Wavelength 880 nm

Timing

Sensor switching frequency 20Hz Sensor response time 25ms < 200 ms Delay before start-up

Electrical data

Operating voltage UB Power consumption 230VAC ± 10% 50/60Hz Switching output relay, 1 change-over contact light or dark switching (reversible) 250VAC/DC Function characteristics Switching voltage, relay Switching current, relay

250VAC 3A/30VDC 3A 250VAC 50 watts 250VAC 60VA ind. load Switching power, relay

Sensitivity adjustable

Indicators

Red LED no reflection, operating voltage connected LED green reflection, with performance reserve LED yellow reflection, no performance reserve

Mechanical data

Housing diecast aluminium

Weight) 490g Optics cover

Connection type standard plug with screw connection up to 1.5 mm²

Environmental data

Ambient temp. (operation/storage) ²⁾ Protective circuit ³⁾ -20°C ... +60°C/-30°C ... +70°C

1, 2, 3 I, all-insulated IP 65

VDE safety class Protection class

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

IEC 60947-5-2 Standards applied

Options

De-humidifying system to prevent fogging of the optics (temperature change)

1) Scanning range: recommended range with performance reserve

-30°C with continuously applied operating voltage

3) 1=transient protection, 2=polarity reversal protection, 3=short circuit protection

Tables

Diagrams

Order guide

Selection table Equipment	Order code →	RK 85/7-300 Part No. 500 00507	RK 85/7-800 Part No. 500 00512	RK 85/7-2000 Part No. 500 00517		
Housing	Metal	•	•	•		
Scanning range	300 mm	•				
	800 mm		•			
	2000 mm			•		
Connection	Connectors	•	•	•		
Features						
Voltage supply	230 VAC	•	•	•		
Switching output	Relay	•	•	•		
Dehumidification		•	•	•		

Remarks

- In the case of badly reflecting materials, the lower and upper scanning limits may change.
- 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.

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