



RK 44/RK 83

Energetic diffuse reflection light scanner



40 mm
20 mm

mini

- Small construction volume enables application in small spaces
- High insensitivity towards soiling and shocks
- Through selection of appropriate amplifiers optimally adaptable to applications
- Small light beam with RK 44
- Indicator diode as alignment aid for fast mounting (only for RK 83)

ISO 9001

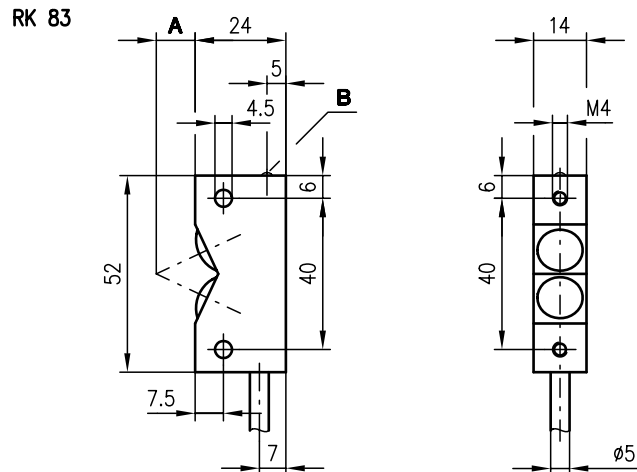
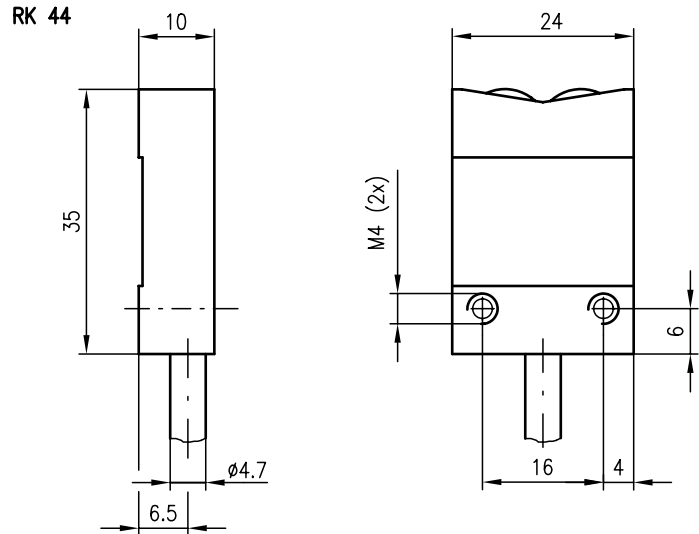


Accessories:

(available separately)

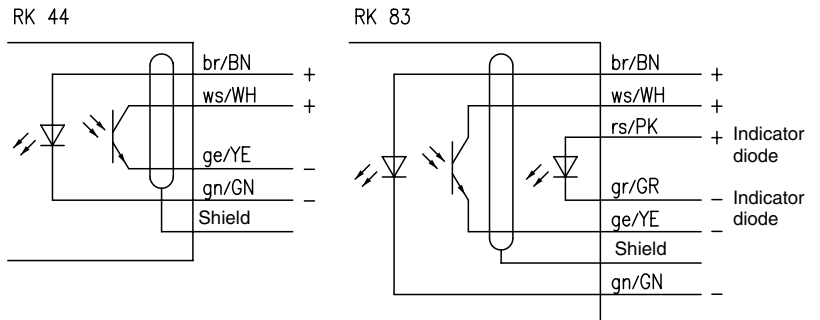
- Amplifier for mini photoelectric sensors, e.g.
 - VS 9/1 (Part No. 500 00632)
 - IVS 9/4.8 (Part No. 500 12303)
 - VS 27/24 (Part No. 500 82005)
 - IVS 28/44.8 (Part No. 500 19808)

Dimensioned drawing



A Focus
B Indicator diode

Electrical connection



We reserve the right to make changes • MS_c02e.fm



Specifications

Optical data	RK 44	RK 83
Scanning range (white 90%) 1) 2)	15 ... 40mm	0 ... 20mm
Light source	LED (modulated light)	
Wavelength	880nm	
Electrical data		
Transmitter	GaAs	
Transmitting current	max. 200mA at D=0.05	
Receiver	Si phototransistor	
Inverse voltage U _{CEO}	max. 35VDC	
Indicators		
LED red		reflection
Mechanical data		
Housing	aluminium red anodised	
Optics	glass	
Weight	approx. 70g	approx. 130g
Cable length	2000mm	
Cable cross-section	4x0.14mm ² +shield	6x0.14mm ² +shield
Environmental data		
Ambient temp. (operation/storage)	-20°C ... +60°C/30 °C ...+70°C	
Protection class	IP 65	

1) The scanning range depends on the choice and on the sensitivity adjustment of the respective amplifier
 2) With RK 83 objects are safely suppressed at distances starting at 50mm

Tables

Diagrams

Order guide

Designation	Part No.
RK 44	500 19080
RK 83	500 00483

Remarks

- The upper and lower scanning range limit varies depending on the reflection properties of the material surface.
- If a cable lengthening should be necessary, make sure that the shield is lead continuously.
- Based on its beam characteristics, the diffuse reflection light scanner RK 44 can detect objects through a slit with dia. ≥ 4.5 mm parallel to the flat housing and over the complete scanning range.