RKR 95

Energetic diffuse reflection light scanner

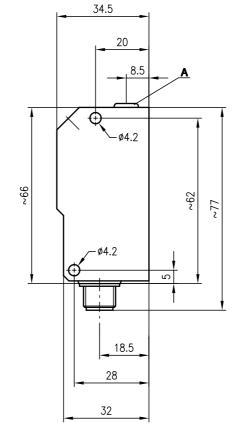




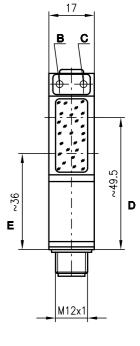
20 ... 900mm



- Energetic scanner with sensitivity adjustment using visible red light for fast and easy alignment
- High switching frequency for detection of fast events
- Small construction with glass cover and robust zinc diecast housing, protection class IP 67/IP 69K for industrial application
- Complementary switching outputs for light/ dark switching or as a control function



Dimensioned drawing



- Scanning range adjustment
- В Switching indicator yellow
- Operation indicator green С
- Optical axis receiver
- Optical axis transmitter

Electrical connection







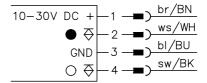




Accessories:

(available separately)

- Mounting systems (BT 95, UMS 1)
- M12 connectors (KD ...)





RKR 95

Specifications

Optical data

Typ. scanning range limit (white 90%) ¹⁾ Scanning range ²⁾ Adjustment range 20 ... 900mm see tables 100 ... 900 mm LED (modulated light) Light source Wavelength 660nm (red light)

Timing

Switching frequency 1000Hz Response time ≤ 100ms Delay before start-up

Electrical data

Operating voltage U_B 10 ... 30 VDC (incl. residual ripple) ≤ 15% of U_B Residual ripple ≤ 35mA 2 PNP transistor outputs, complementary Bias current Switching output

light/dark switching ≥ (U_B-2V)/≤ 2V max. 100mA Function characteristics Signal voltage high/low Output current

Indicators

LED green ready LED yellow LED yellow flashing reflection

reflection, no performance reserve

Mechanical data

Housing Optics cover Weight diecast zinc

glass 90g M12 connector, stainless steel, 4-pin Connection type

Environmental data

Ambient temp. (operation/storage)³⁾ Protective circuit ⁴⁾ -25°C (-30°C) ... +60°C/-40°C ... +70°C 2, 3 II, all-insulated VDE safety class 5)

IP 67, IP 69K 6) Protection class 1 (acc. to EN 60825-1) LED class Standards applied IEC 60947-5-2

Typ. scanning range limit: max. attainable range without performance reserve Scanning range: recommended range with performance reserve

-30°C with operating voltage continuously applied

4) 2=polarity reversal protection, 3=short-circuit protection for all outputs

Rating voltage 250 VAC

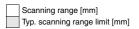
6) IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives, acids and bases are not part of the test

Order guide

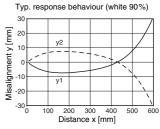
Designation Part No. Red light RKR 95/44-600 L 500 34513

Tables

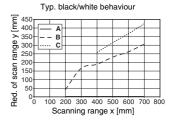
1	20	600			900		
2	30	3	330		4	20	
3	40	220		3	00		
1	white 90%						
2	grey 18%						
3	black 6%						



Diagrams







- A white 90%
- grey 18%
- C black 6%



Remarks

 With the set scanning range, the upper and lower scanning range limits may change depending on the reflection properties of the material surface.