Energetic diffuse reflection light scanner

## **RKR 95**

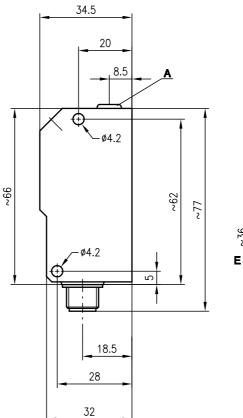




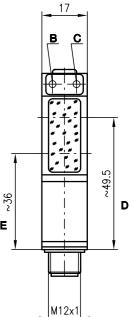
20 ... 900mm

10 - 30 V <u>DC</u>

- 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

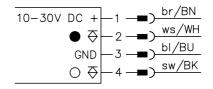


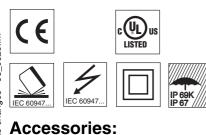
**Dimensioned drawing** 



- A Scanning range adjustment
- **B** Switching indicator yellow
- **C** Operation indicator green
- D Optical axis receiver
- E Optical axis transmitter

# **Electrical connection**





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

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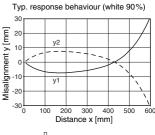
#### **Tables**

1	20	600			900		
2	30	3	330		420		
3	40	220		3	00		
1	white 90%						
2	grey 18%						
3	black 6%						

Scanning range [mm]

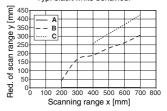
Typ. scanning range limit [mm]

### Diagrams





Typ. black/white behaviour



A white 90% в grey 18%

C black 6%

- **y** 

### **Remarks**

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

0.5ms ≤ 100ms

10 ... 30VDC (incl. residual ripple)  $\leq$  15% of U<sub>B</sub>  $\leq$  35mA 2 PNP transistor outputs, complementary light/dark switching  $\geq (U_B-2V)/\leq 2V$ max. 100mA

ready reflection reflection, no performance reserve

diecast zinc glass 90g M12 connector, stainless steel, 4-pin

-25°C (-30°C) ... +60°C/-40°C ... +70°C 2, 3 II, all-insulated IP 67, IP 69K 6) 1 (acc. to EN 60825-1) IEC 60947-5-2

- Typ. scanning range limit: max. attainable range without performance reserve
  Scanning range: recommended range with performance reserve
- 3) -30°C with operating voltage continuously applied
- 4) 2=polarity reversal protection, 3=short-circuit protection for all outputs 5) 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

Red light

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**Specifications** 

**Optical data** 

Light source Wavelength

Switching frequency

Delay before start-up **Electrical data** Operating voltage UB

Function characteristics Signal voltage high/low Output current

Response time

Residual ripple

Bias current Switching output

Indicators

LED green

Housing Optics cover Weight

LED yellow LED yellow flashing

Mechanical data

Connection type

**Environmental data** 

VDE safety class 5)

Protection class

LED class Standards applied

Ambient temp. (operation/storage)<sup>3)</sup> Protective circuit <sup>4)</sup>

Timing

Designation RKR 95/44-600 L

Part No. 500 34513