RTR 46B

Energetic diffuse reflection light scanner



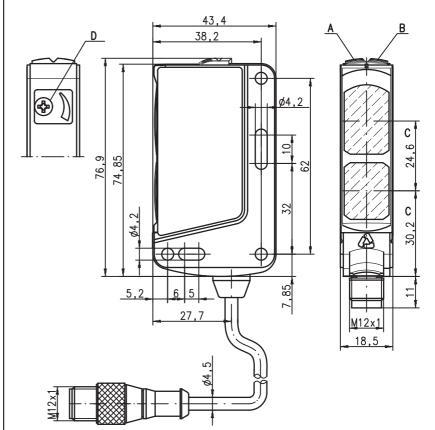




10 ... 1,100mm

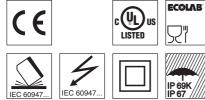


- Diffuse reflection light scanner with visible red light
- Scanning range adjustment
- Fast alignment through brightVision®
- A²LS Active Ambient Light Suppression
- Complementary switching outputs for optimal adaptation to the application



- A Green indicator diode
- B Yellow indicator diode
- C Optical axis
- D Scanning range adjustment

Dimensioned drawing

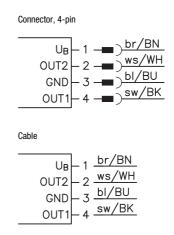


Accessories:

(available separately)

- Mounting systems (BT 46, BT 46.1, BT 46.1.5, BT 46.2)
- M12 connectors (KD ...)
- Ready-made cables (K-D ...)

Electrical connection



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Specifications

Optical data Red light Typ. scanning range limit (white 90%) 1) 10 ... 1,100mm Scanning range 2 see tables Adjustment range 100 ... 900mm Light source Wavelength LED (modulated light) 620nm (visible red light)

Timing

Switching frequency 500 Hz 1ms ≤ 100ms Response time Delay before start-up

Electrical data

10 ... 30 VDC (incl. residual ripple) \leq 15 % of U_B Operating voltage U_B 3)

Residual ripple

≥ 20mA 2 push-pull switching outputs ⁴⁾ ≥ (U_B-2V)/≤ 2V max. 100mA Open-circuit current Switching output .../66. ...

Signal voltage high/low Output current

Indicators

Green LED ready Yellow LED reflection

Mechanical data

plastic Housing Optics cover

plastic 50g (with connector) / 55g (with cable) / 65g (with cable and Weight

connector)

Connection type M12 connector or

cable with M12 connector, cable length: 200 mm or

cable 2,000 mm

Environmental data

-40°C ... +60°C/-40°C ... +70°C

Ambient temp. (operation/storage) Protective circuit 5) 2, 3 II, all-insulated IP 67, IP 69K 1 (acc. to EN 60825-1) VDE safety class 6) Protection class LED class

IEC 60947-5-2 Standards applied

Typ. scan. range limit: max. achievable scanning range for light objects (white 90%)

2) Scanning range: recommended scanning range for objects with different diffuse reflection

For UL applications: for use in class 2 circuits only

The push-pull switching outputs must not be connected in parallel

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

6) Rating voltage 50 V

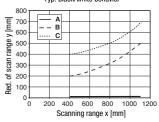
Tables

	1	10	800		1,100			
ĺ	2	35	400		600			
	3	45	250	400				
	1	white 90%						
	2	grey 18%						
ĺ	3	black 6 %						
		Scanning range [m]						

Typ. scanning range limit [m]

Diagrams

Typ. black/white behavior



A white 90%

B grey 18%

C black 6%



Order guide

	Designation	Part No.
With M12 connector Complementary switching output	RTR 46B/66-S12	50108522
Cable with M12 connector Complementary switching output	RTR 46B/66, 200-S12	50108523
Cable, cable length 2m Complementary switching output	RTR 46B/66	50108524

Remarks

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.

With the set scanning range, a tolerance of the upper scanning range limit is possible depending on the reflection properties of the material surface.

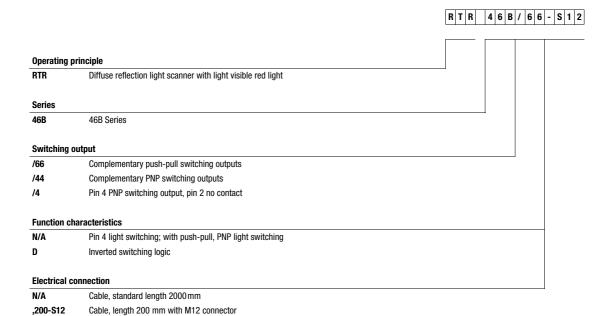
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Type key

-S12

M12 connector



△ Leuze electronic

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