RTR 8

Energetic diffuse reflection light scanner







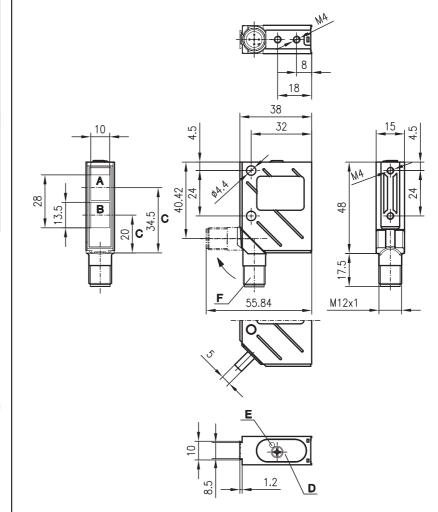
5 ... 800 mm





- A²LS active suppression of extraneous light
- Push-pull switching outputs
- M12 turning connector or cable connection
- Visible red light

Dimensioned drawing



- **A** Receiver
- **B** Transmitter
- C Optical axis
- D Operational control
- **E** LED yellow
- F 90° turning connector







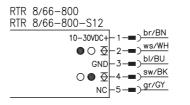


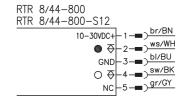
Accessories:

(available separately)

- M12 connectors (KD ...)
- Ready-made cables (K-D ...)
- Mounting systems
- Control guard

Electrical connection





RTR 8

Specifications

Optical data

Typ. scanning range limit (white 90%) 1) 5 ... 800mm Scanning range 2) see tables ... 800mm Electrical adjustment range

LED (modulated light) 660nm (visible red light) Light source Wavelength

Timing

Switching frequency 1500Hz Response time Delay before start-up 0.33ms < 100ms

Electrical data

10 ... 30VDC ≤ 15% of U_B Operating voltage U_B 3) Residual ripple

Bias current Switching output/function

≤ 13 70 01 0B ≤ 35 mA .../66 2 push-pull switching outputs ⁴⁾ pin 2: PNP dark switching, NPN light switching pin 4: PNP light switching, NPN dark switching .../44 2 PNP switching outputs

pin 2: dark switching pin 4: light switching ≥ (U_B-2V)/≤ 2V max. 100mA

Output current Sensitivity adjustable with 270° potentiometer

Indicators

LED yellow LED yellow flashing light path free

light path free, no performance reserve

Mechanical data

Signal voltage high/low

Housing metal Optics cover Weight (plug/cable) Connection type glass 70g/140g

M12 connector, 5-pin (turning), or cable: 2000mm, 5x0.25mm2

Environmental data

Ambient temp. (operation/storage) -40°C ... +60°C/-40°C ... +70°C

Protective circuit 2, 3 VDE safety class 6) II, all-insulated Protection class 7) IP 67, IP 69K 8)

exempt group (in acc. with EN 62471) IEC 60947-5-2 Light source

Standards applied

UL 508, C22.2 No.14-13 3) 9) Certifications

Typ. scanning range limit: max. attainable range without performance reserve

Scanning range: recommended range with performance reserve

For UL applications: for use in class 2 circuits according to NEC only

The push-pull switching outputs must not be connected in parallel 2=polarity reversal protection, 3=short-circuit protection for all outputs

Rating voltage 250VAC

In stop position of the turning connector (turning connector locked)

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

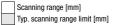
These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min. in the field installation, or equivalent (categories: CYJV/CYJV7 or PVVA/PVVA7)

Order guide

	Designation	Part No.
With M12 connector	RTR 8/44-800-S12	50036366
With 2m cable	RTR 8/44-800	50036367
With M12 connector	RTR 8/66-800-S12	50036368
With 2m cable	RTR 8/66-800	50036369

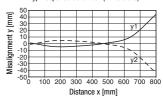
Tables

1	10			600	800
2	15		210	320	
3	25	-	220		
1	white 90%				
2	grey 18%				
3	black 6 %				



Diagrams

Typ. response behaviour (white 90%)





Remarks

Operate in accordance with intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons. ♦ Only use the product in accor-
- dance with the intended use.