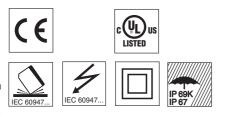
RT 96



20-230 V н AC / DC A²LS

- Robust metal housing with glass cover or plastic housing, protection class IP 67/ IP 69K for industrial application
- Relay with change-over contact, sensitivity adjustment and delay before start-up for optimal adaptation to the application
- Minimal short range
- Version with additional switching delay •
- Connection via comfortable terminal compartment up to 1.5mm²

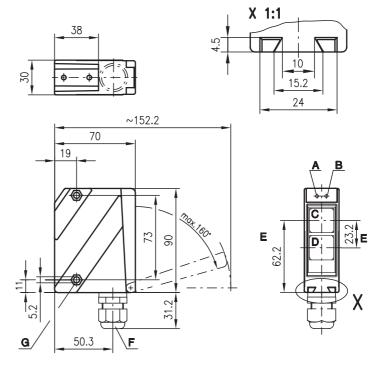


Accessories:

- (available separately)
- Mounting systems
- (BT 96, BT 96.1, UMS 96, BT 450.1-96) • Spark extinction

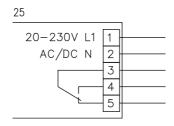


Dimensioned drawing



- Α Indicator diode green
- в Indicator diode yellow
- С Receiver
- D Transmitter
- Е Optical axis
- F Screwed cable gland M16x1.5 for Ø 5 ... 10mm
- Countersinking for SK nut M5, 4.2 deep G
- н Connection terminals L
- Cable entry
- κ Sensitivity adjustment

Electrical connection



C •FL Time 1

C 🕂 Time 2

۲

ĕ

Н

<u>K</u> Ø

RT 96

Specifications

Optical data

Typ. scanning range limit (white 90%) 1) Scanning range 2 Adjustment range Light source Wavelength

Timing

Switching frequency Response time Delay before start-up

Electrical data

Operating voltage UB

Power consumption Switching output ³⁾ Function characteristics Switching voltage, relay Switching current, relay Switching power

Indicators

LED green LED yellow LED yellow flashing

Mechanical data

Housing Optics cover Weight Connection type

Environmental data

Ambient temp. (operation/storage) Protective circuit⁴⁾ VDE safety class ⁵⁾ Protection class LED class Standards applied

Options

Switching delay (slow oper./release)

1) 2ĺ

- 4)

6) acids and bases are not part of the test

Order auide

Selection table Equipment ↓	Order code →	RT 96M/R-1574-800-25 Part No. 500 41598			
Housing	metal	٠			
	plastic				
Light source	red light (500mm)				
	infrared light (800mm)				
Connection	terminals				
Features	switching delay	٠			
	short range (20mm)	•			

20 ... 1200mm 20 ... 800mm 0 ... 100% LED (modulated light) 880nm (infrared)

20Hz 25ms ≤ 200ms

20 ... 230VAC, 50/60Hz 20 ... 230VDC ≤ 2VA relay, 1 change-over contact break-contact/make-contact 250 VAC/DC 250 VAC, 3A/30 VDC, 3A 750VA, cosφ=1

ready reflection reflection, no performance reserve

Metal housing

diecast zinc glass 380 g terminals

-20°C ... +60°C/-40°C ... +70°C 1, 4

II, all-insulated IP 67, IP 69K ⁶⁾ 1 (acc. to EN 60825-1) IEC 60947-5-2

0 ... 10s (separately adjustable)

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

Scanning range: recommended range with performance reserve

- 3) Suitable spark extinction must be provided with inductive or capacitive loads
- 1=transient protection, 4=interference blanking

5) Rating voltage 250 VAC

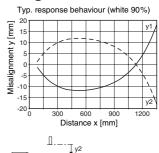
IP 69K test acc. to DIN 40050 part 9 simulated, high pressure cleaning conditions without the use of additives,

Tables

1	20	800		1200		200	
2	60	420			950		
3	80	290		5	570		
1	white 90%						
2	grey 18%						
3	black 6%						

Scanning range [mm] Typ. scanning range limit [mm]

Diagrams



y1

J

Remarks

• The upper and lower scanning range limit varies depending on the reflection properties of the material surface.

Short range objects are detected down to a minimum distance of 20mm.