Retro-reflective photoelectric sensors

Dimensioned drawing





В

Х

- Green indicator diode Α
- В Yellow indicator diode
- С Optical axis
- Screwed cable gland M16x1.5 for Ø 5 ... 10mm D
- Е Countersinking for SK nut M5, 4.2 deep
- Connection terminals F
- G Cable entry
- Sensitivity adjustment н

Electrical connection



RK 96



18m

20-230 V (HF AC / DC A²LS

- Retro-reflective photoelectric sensor with a • large operating range
- Robust plastic housing, protection class IP 67 for industrial application
- All-mains design 20 ... 230VAC/DC with relay output
- Relay with change-over contact, sensitivity adjustment and delay before start-up for optimal adaptation to the application
- Connection via comfortable terminal • compartment up to 1.5mm²



- (available separately)
- Mounting systems

- Reflective tapes

Accessories:

(BT 96, UMS 96, BT 450.1-96) Spark extinction

Reflectors



▲ Leuze electronic

Tables Reflectors

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Specifications

Optical data

Typ. operating range limit (TK(S) 100x100) 1) 18m Operating range Light source Wavelength

Timing

Switching frequency Response time Delay before start-up

Electrical data

Operating voltage U_B

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

Indicators

Green LED Yellow LED Flashing yellow LED

Mechanical data

Housing Optics cover Weight Connection type

Environmental data

Ambient temp. (operation/storage) Protective circuit ⁴⁾ VDE safety class ⁵⁾ Protection class Light source Standards applied

see tables LED (modulated light) 880nm (infrared)

20Hz 25ms ≤ 200 ms

20 ... 230VAC, 50/60Hz 20 ... 230VDC ≤ 1.5VA relay, 1 change-over contact break-contact/make-contact 250VAC/DC 250VAC, 3A/30VDC, 3A 750VA, cosφ=1 adjustable

ready light path free light path free, no performance reserve

Plastic housing

polycarbonate plastic 150g terminals

-30°C ... +55°C/-40°C ... +55°C 1,4

II, all-insulated IP 67 exempt group (in acc. with EN 62471) IEC 60947-5-2

1) Typ. operating range limit: max. attainable range without performance reserve

- Operating range: recommended range with performance reserve 2)
- 3) Suitable spark extinction must be provided with inductive or capacitive loads

4) 1=transient protection, 4=interference blanking

Rating voltage 250VAC 5)

Order guide

Designation RK 96K/R-1560-25

Part no. 50080484

100x100 0.3 ... 15m 1 TK(S) MTK(S) 50x50 0.3 ... 11 m 30x50 0.3 ... 6m 3 TK(S) 20x40 0.3 ... 5m 4 TK(S)

RK 96

Operating range



Operating range [m] Typ. operating range limit [m] TK = adhesive TKS ... = screw type

Diagrams





Remarks

Operate in accordance with intended use!

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