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Model Number

RLK61-55-Z/31/135

Retroreflective sensor with V95 quick disconnect

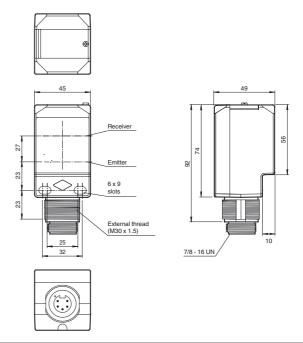
Features

- Cost-optimized series for standard tasks in a special design
- · Compact design
- Wide range of mounting options thanks to cubic housing design with M30 thread
- 360° high visibility LEDs
- Programmable ON-delay, OFF-delay, and One-shot timers
- Version for universal voltages
- Relay output

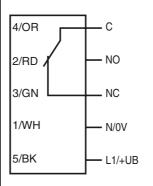
Product information

The Series 61 sensor family is a comprehensive product line, offering five sensing modes. Each sensor is equipped with four LEDs that are highly visible from all directions, indicating Power-On, target presence and marginal excess gain. The widely recognized, polycarbonate housing provides a IP67 protection degree rating. Color-coded labels are clearly printed on the housing to easily identify the sensing mode. DC models offer a 4-in-1 output while AC/DC models have a SPDT relay output rated to 3 A. All versions come standard with an integral multifunction timer, sensitivity adjustment and Light-ON/Dark-ON switch. Series 61 sensors are cross-talk protected and have a high degree of resistance to ambient lighting. Each sensor can be mounted via front and rear slots, rear dovetail guide or M30 x 1.5 mounting base. Additionally, cabled sensor models provide 1/2" - 14 NPT internal threads for use with flexible conduit.

Dimensions

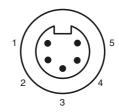


Electrical connection

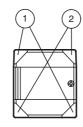


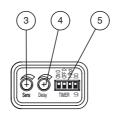
The relay-functions "NC" and "NO" bear on the switching mode "Dark-ON".
This complies to the default setting of the light/dark switch (factory setting).

Pinout



Indicators/operating means





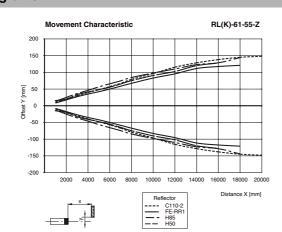
1	Operating display	green
2	Signal display	yellow
3	Sensing range adjuster	
4	Time adjuster	
5	DIP-switches	



Technical data General specifications Effective detection range 0 ... 18 m 0.3 ... 18 m Reflector distance 25 m Threshold detection range FE-RR1 reflector Reference target LFD Light source Light type modulated visible red light, 630 nm Diameter of the light spot approx. 350 mm at a distance of 18 m Angle of divergence 1.1 Ambient light limit 5000 Lux; according EN 60947-5-2 Indicators/operating means Operating display 2 LEDs green Function display 2 LEDs yellow on: reflector inside the sensing range off: reflector outside the sensing range Controls Light/Dark switch Controls Detection range adjuster Controls Time adjuster (0 ... 10 s) **Electrical specifications** Operating voltage U_{B} 24 ... 240 V AC 12 ... 240 V DC No-load supply current ≤ 35 mA I_0 II , rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit basis insulation of input circuit Protection class according to EN 50178, rated insulation voltage 240 V AC Power consumption P_0 Output light/dark on, switchable Switching type Signal output Relay, Form C Switching voltage max. 250 V AC/DC Switching current max. 3 A Switching power DC: max. 150 W AC: max. 750 VA Switching frequency 20 Hz Response time ≤ 25 ms Timer function DIP-switch for selection of operating modes Ambient conditions -40 ... 55 °C (-40 ... 131 °F) Ambient temperature Storage temperature -40 ... 70 °C (-40 ... 158 °F) Mechanical specifications Protection degree 5-pin V95 connector (7/8"-16 UN 2A) Connection Material Housing PC (Polycarbonate) Optical face PMMA 130 g Compliance with standards and directi-Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates **UL** approval cULus

Curves/Diagrams

CCC approval



Accessories

MPZB01

Mounting bracket with vertical slots

MPZB02

Mounting bracket with circular slots

MPZB06

Ball and Swivel Mounting Bracket

MPZB07

Ball and Swivel Vertical Mounting Plate

V95-G-YE2M-STOOW

Female connector, 7/8" - 16 UNF, 5-pin, PVC cable

V95-W-YE2M-STOOW

Female connector, 7/8" - 16 UNF, 5-pin, PVC cable

Other suitable accessories can be found at www.pepperl-fuchs.com

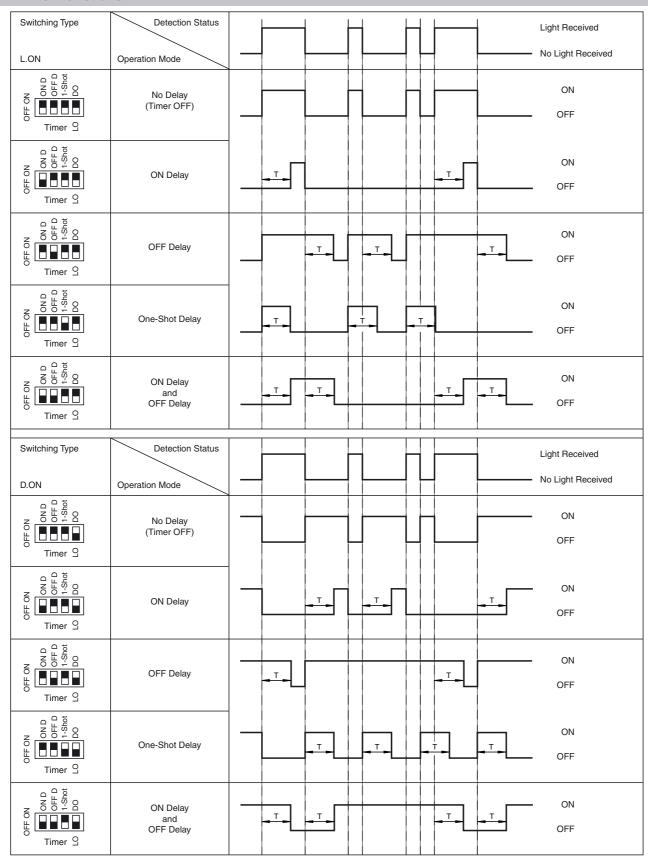
> 911616_eng.xml Date of issue: 2013-01-04 Release date: 2013-01-04 18:12

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Timer Functions



DIP-Switch position

Time (T) is adjustable from 0 to 10 sec

Adjustment Instructions

Intended use:

The retroreflective sensor contains the emitter and receiver in a single housing. The light from transmitter is reflected back from a reflector to the receiver. If an object interrupts the light beam, the switching function is initiated.

Mounting instructions:

The sensor can be mounted using the through-holes or with a mounting bracket (not included with delivery).

The base surface must be flat to avoid distorting the sensor housing during mounting. It is advisable to secure the bolts and screws with washers so that the sensor does not become misaligned.

Adjustment Instructions:

Connect the sensor to operating voltage and the green LED lights up solid.

Mount a suitable reflector opposite the sensor and make a rough adjustment.

The precise adjustment is done by swiveling the sensor horizontally and vertically. With optimum light reception, the yellow LED lights up solid. It will blink if the sensor requires fine adjustment.

Object detection:

Move an object into the light beam. If the object is detected, the yellow LED switches off. If it does not switch off, reduce the sensitivity with the potentiometer until it does. It should light up solid when the object is removed.

Cleaning:

The yellow LED flashes if the light received decreases (e.g. dirty lenses).

We recommend that you clean the optical interfaces and check all connections at regular intervals.

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