









Model Number

RLK29-55/59/116

Retroreflective sensor with terminal compartment

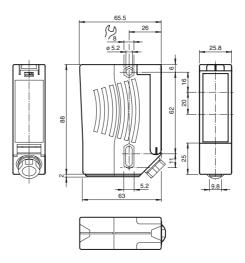
Features

- Robust, compact photoelectric sensor for single-beam gate protection
- Not sensitive to ambient light, even with energy saving lamps
- Tamper-proof, no operating controls
- Version for universal voltages
- Relay output

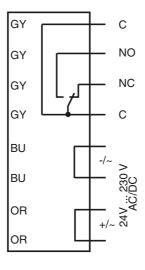
Product information

Series 29 is a range of low-cost and, most importantly, reliable photoelectric sensors for monitoring industrial doors, elevators, and automatic gates. Their high degree of protection makes them the ideal solution for tasks outdoors and at thresholds, and in harsh environments. These "universal-voltage sensors" can be operated with any supply voltage from 24 V to 240 V, and with direct current or alternating current.

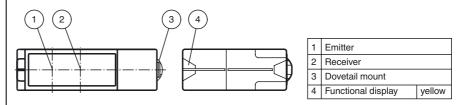
Dimensions



Electrical connection



Indicators/operating means



Technical data

General specifications Effective detection range 0 ... 12 m 0.04 ... 12 m Reflector distance 14 m Threshold detection range H85-2 reflector Reference target LFD Light source Light type modulated visible red light, 640 nm Diameter of the light spot approx. 35 mm at a distance of 12 m Angle of divergence ± 1 Ambient light limit 90000 Lux Functional safety related parameters 1460 a MTTF_d Mission Time (T_M) 0 % Diagnostic Coverage (DC) Indicators/operating means Function indicator LED red illuminates: when beam is free flashes: when level falls below function reserve off: when beam is interrupted **Electrical specifications** Operating voltage 24 ... 230 V AC/DC U_{R} Ripple 10 % No-load supply current ≤ 8.5 mA I_0 Power consumption 0.2 W at 24 V DC, 1.8 W at 230 V AC 3 VA P_0 Output Switching type dark on Signal output Relay, 1 alternator 230 V AC Switching voltage Switching current max. 2 A Switching frequency f 7 Hz Response time 50 ms **Ambient conditions** Ambient temperature -20 ... 60 °C (-4 ... 140 °F) Storage temperature -30 ... 70 °C (-22 ... 158 °F) **Mechanical specifications** Degree of protection IP67 Connection terminal compartment Material Plastic ABS, flame resistant Housing Optical face Plastic pane Mass 100.7 q Safety fuse ≤ 2 A (slow-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly. Compliance with standards and directi-Low Voltage Directive 2006/95/EC Directive conformity EMC Directive 2004/108/EC Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Approvals and certificates CE conformity ves **UL** approval Caution: This equipment is considered as open-type equipment. It must be mounted within an enclosure, that is suitably designed for protection against internal fire and personal injury resulting from accessibility to live parts according UL 508. CCC approval Certified by China Compulsory Certification (CCC)

Typical applications

- Monitoring closing edges of automatic industrial doors and elevators
- Monitoring the swing range of automatic gates
- Detecting and tracking objects in material handling

Detection area



Accessories

OMH-RLK29

Mounting bracket

OMH-RLK29-HW

Mounting bracket for rear wall mounting

OMH-21

Mounting bracket

OFR-100/100

Reflective tape 100 mm x 100 mm

REF-C110-2

Reflector, round ø 84 mm, central mounting hole

REF-H180

Reflector, rectangular 180 mm x 40 mm, mounting holes

REF-H160

Reflector, rectangular 60 mm x 18 mm, mounting holes

REF-H85-2

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-H60-2

Reflector with mounting holes

REF-H50

Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

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

Curves/Diagrams

