



CE







Model Number

LA29/LK29-Z-F1/31/116-SET

Thru-beam sensor With OMH-RLK29-HW mounting bracket

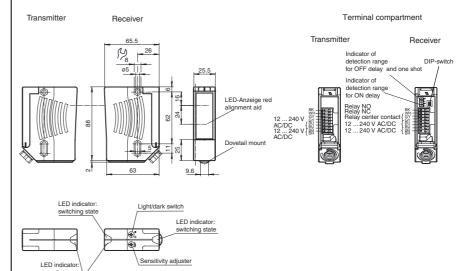
Features

- Robust, compact photoelectric sensor for single-beam gate protection
- Very high detection range
- No measurable emitted interference on all frequencies
- Not sensitive to ambient light, even with energy saving lamps
- Adjustable timer functions
- Version with accessories in scope of delivery

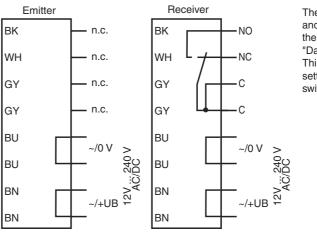
Product information

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



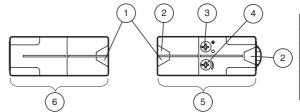
Electrical connection



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).

Indicators/operating means



1	Operating display green		
2	Switch state yellow		
3	Bright/dark switch		
4	Sensitivity adjustment		
5	Receiver		
6	Transmitter		
	3 4 5		

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Technical data System components Emitter LA29-F1/116 LK29-Z-F1/31/116 General specifications Effective detection range 0 65 m Threshold detection range 90 m LED Light source Light type modulated visible red light, 660 nm Alignment aid LED red (in receiver lens) illuminated constantly: beam is interrupted. flashes: reaching switching point, off: sufficient stability control Transmitter frequency F1 = 25 kHzDiameter of the light spot approx. 1.3 m at 65 m Angle of divergence Emitter 1.2°, Receiver 5° 50000 Lux Ambient light limit Functional safety related parameters 490 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green Operating display Function display LED yellow: 1. LED lit constantly: signal > 2 x switching point (function 2. LED flashes: signal between 1 x switching point and 2 x switching point 3. LED off: signal < switching point sensitivity adjustment (Adjustment to < 25% of the effective ope-Controls rating range), Light/Dark switch **Electrical specifications** 12 ... 240 V AC/DC Operating voltage U_{B} Power consumption P_0 ≤ 3.5 VA Output light/dark on, switchable. (selectable, light/dark switching is only Switching type activated if the receiver has 'dark on' selected.) Signal output Relay, 1 alternator Switching voltage max. 250 V AC/DC max. 2 A Switching current Switching power DC: max. 50 W AC: max. 500 VA Switching frequency Response time 20 ms Timer function ON delay (GAN), OFF delay (GAB), one shot (IAB), ON delay-OFF delay (GAN-GAB), programmable adjustment range 0.1 ... 10 s **Ambient conditions** -40 ... 60 °C (-40 ... 140 °F) Ambient temperature Storage temperature -40 ... 75 °C (-40 ... 167 °F) Mechanical specifications IP67 Protection degree terminal compartment with 8 spring-loaded terminals for wire Connection cross section 0.5 ... 1.5 mm², Insulation stripping 7.5 ... 8.5 mm , M16 x 1.5 cable gland Material Housing Plastic ABS Optical face Plastic pane Mass 200 g (emitter and receiver) 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 Protection class II. rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output circuit basis insulation of input circuit according to EN 50178, rated insulation voltage 230 V AC

Typical applications

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

Detection area



Accessories

OMH-05

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-07

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-21

Mounting bracket

OMH-22

Mounting bracket

OMH-RLK29

Mounting bracket

OMH-MLV11-K

dove tail mounting clamp

OMH-RLK29-HW

Mounting bracket for rear wall mounting

OMH-RL28-C

Weld slag cover model

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

244081 Date of issue: 2013-01-14

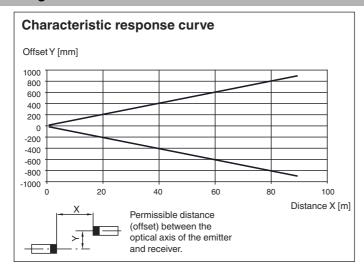
ment is closed.

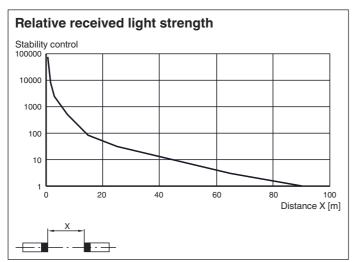
The protection class 2 is only valid when the terminal compart-

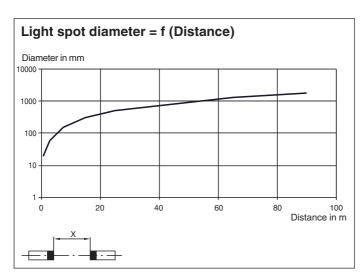
Certified by China Compulsory Certification (CCC)

CCC approval

Curves/Diagrams







Timer functions

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Time t_{ON} , t_{OFF} and t_{OS} are adjustable from 0.1 to 10 seconds. The Light-/Dark-Switch (Left, outer switch) is shown in the "Dark ON" position.

Туре	Description	Notes
-Z	OFF delay timer	Adjustable time interval
	one shot timer	(0.1 s - 10 s)
	ON delay timer	
	ON delay timer / OFF delay timer	
	ON delay timer / one shot timer	

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