

Retroreflective sensor RLK29-55/25/116

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- 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

Robust, compact, long range photoelectric sensors for detecting people, objects and vehicles

Function

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.

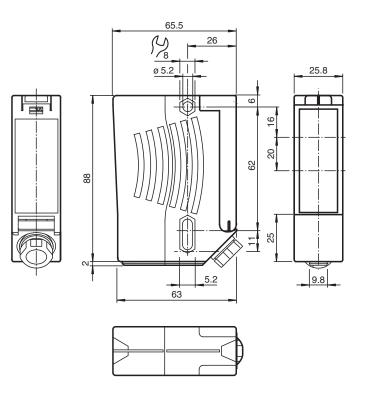
Application

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

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Dimensions



Technical Data

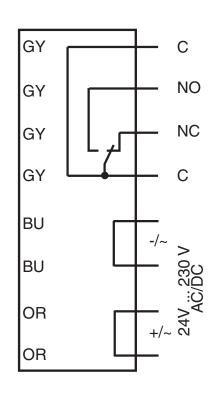
General specifications		
Effective detection range		0 12 m
Reflector distance		0.04 12 m
Threshold detection range		14 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light , 640 nm
Diameter of the light spot		approx. 35 mm at a distance of 12 m
Opening angle		±1°
Ambient light limit		90000 Lux
Functional safety related parameters		
MTTF _d		1460 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
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	U_B	24 230 V AC/DC
Ripple		10 %
No-load supply current	I ₀	≤ 8.5 mA

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Technical Data		
Power consumption	Po	0.2 W at 24 V DC , 1.8 W at 230 V AC 3 VA
Output		
Switching type		light-on
Signal output		Relay, 1 alternator
Switching voltage		230 V AC
Switching current		max. 2 A
Switching frequency	f	7 Hz
Response time		50 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
CE conformity		yes
UL approval		cULus Listed 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)
Ambient conditions		
Ambient temperature		-20 60 °C (-4 140 °F)
Storage temperature		-20 60 °C (-4 140 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		terminal compartment
Material		
Housing		Plastic ABS, flame resistant
Optical face		Plastic pane
Mass		100.7 g
Note		Safety fuse \leq 2 A (slow-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

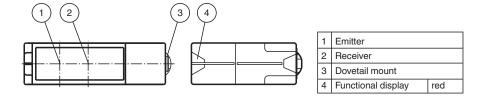
Connection Assignment



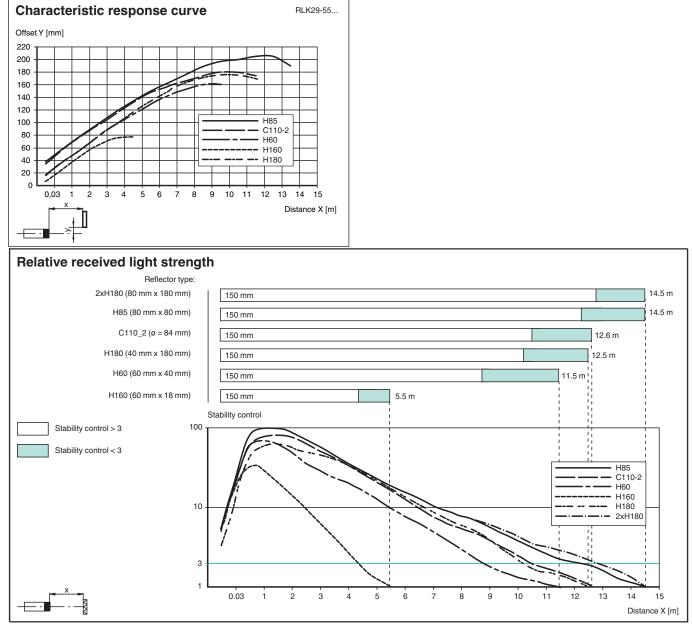
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Assembly



Characteristic Curve



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

4

Accessories					
Į.	OMH-RLK29	Mounting bracket			
	OMH-RLK29-HW	Mounting bracket for rear wall mounting			
	OMH-RLK29-HW-120	Mounting bracket for rear wall mounting			
	OMH-21	Mounting bracket: mounting aid for sensors in the RL* series			
	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 182 mm x 42 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			

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