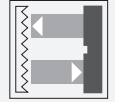




Retroreflective sensor RLK29-55-5060



- Robust, compact photoelectric sensor for single-beam gate protection
- High detection ranges achievable
- 2500 V Proof voltage between the relay connection terminals and the device electronics
- Not sensitive to ambient light, even with energy saving lamps
- Version with accessories in scope of delivery

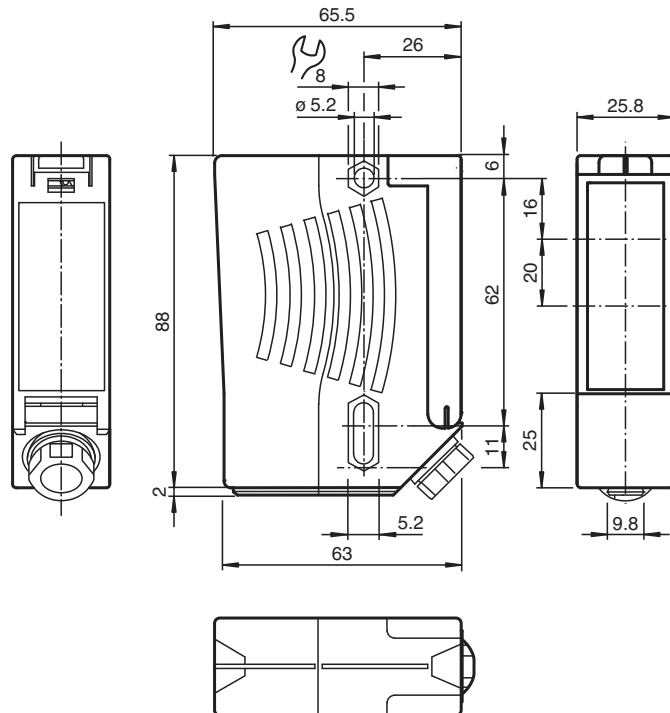
Robust, compact, long range photoelectric sensors for detecting people, objects and vehicles



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.

Dimensions



Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 232252_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PF PEPPERL+FUCHS

Technical Data

General specifications	
Effective detection range	0 ... 12 m
Reflector distance	0.04 ... 12 m
Threshold detection range	14 m
Reference target	reflector C110-2 Diameter: 84 mm , included with delivery
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
Angle of divergence	± 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
Power consumption	P ₀ 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
EAC conformity	TR CU 020/2011 TR CU 004/2011
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	-30 ... 70 °C (-22 ... 158 °F)
Mechanical specifications	
Degree of protection	IP67
Connection	terminal compartment
Material	
Housing	Plastic ABS, flame resistant
Optical face	plastic
Mass	approx. 200 g
Note	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.

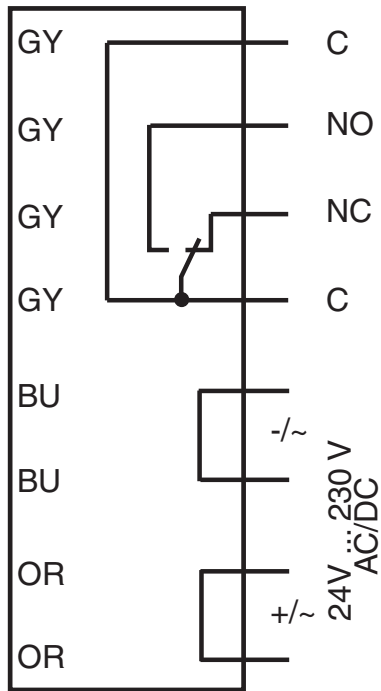
Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 232252_eng.pdf

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

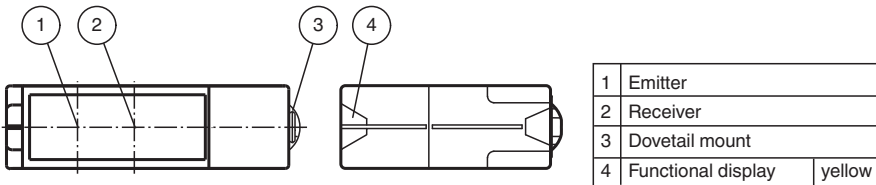
Pepperl+Fuchs Group
www.pepperl-fuchs.comUSA: +1 330 486 0001
fa-info@us.pepperl-fuchs.comGermany: +49 621 776 1111
fa-info@de.pepperl-fuchs.comSingapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

PEPPERL+FUCHS

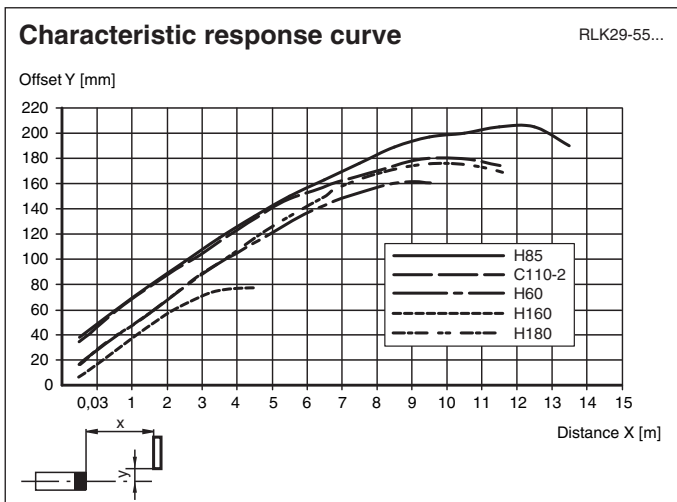
Connection Assignment



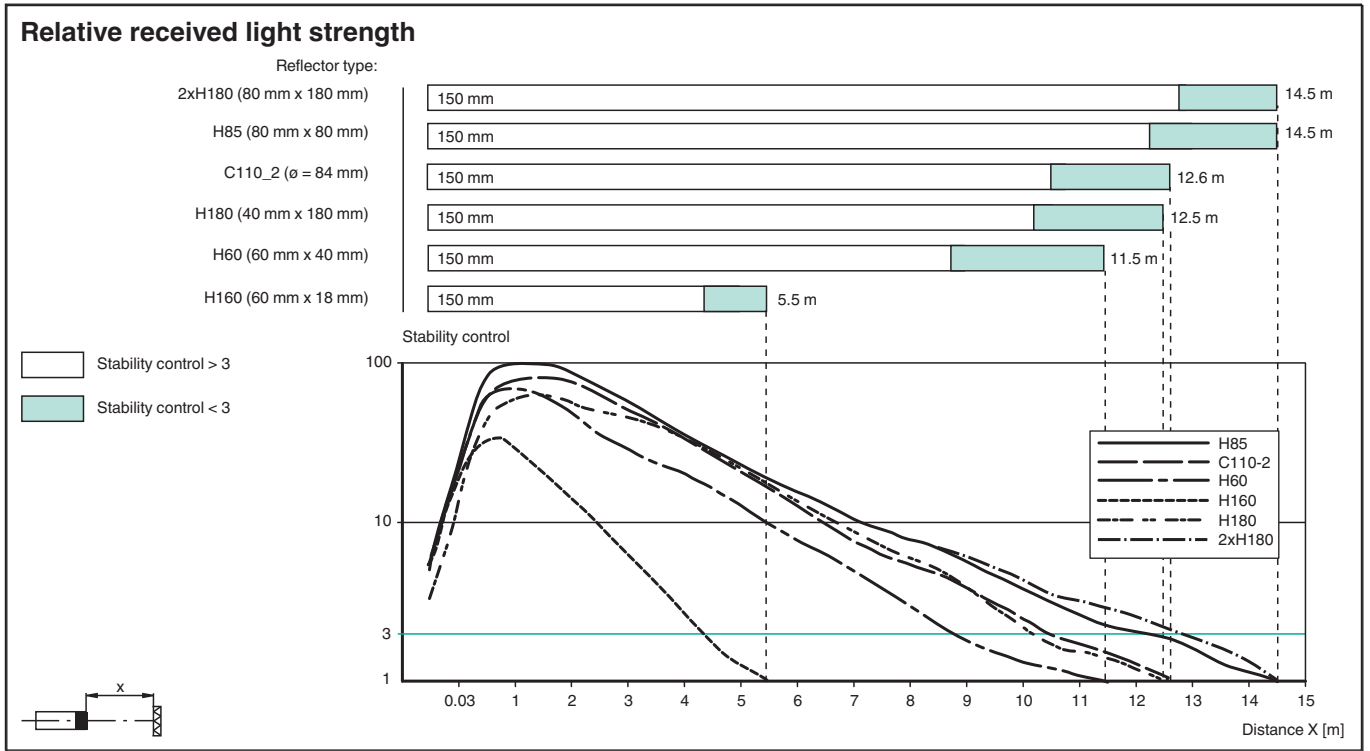
Assembly



Characteristic Curve








Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 232252_eng.pdf



Application









Accessories

	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
	OFR-100/100	Reflective tape 100 mm x 100 mm

Release date: 2020-12-10 Date of issue: 2020-12-10 Filename: 232252_eng.pdf

Accessories

	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

Accessories

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

Application

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