

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
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	$\pm 1^\circ$
Ambient light limit	90000 Lux
Accessories provided	reflector C110-2 , Mounting bracket with mounting materials

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
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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	dark-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
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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

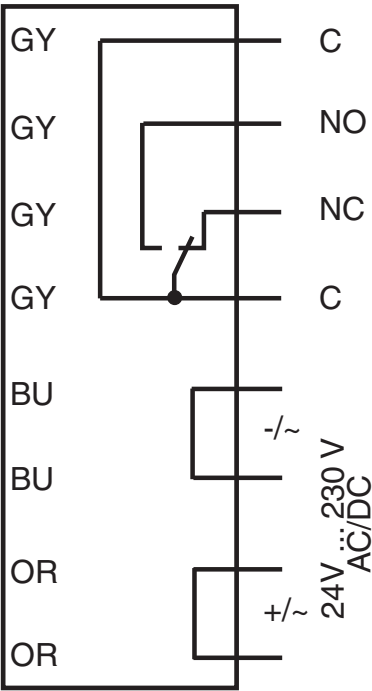
Ambient temperature	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	-20 ... 60 °C (-4 ... 140 °F)

Mechanical specifications

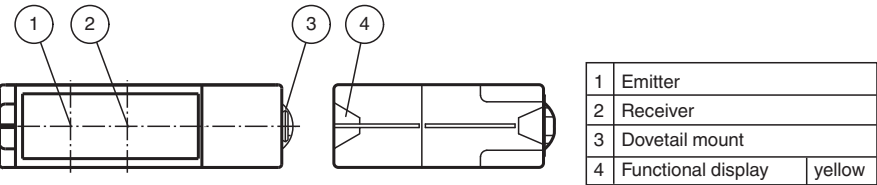
Degree of protection	IP67
Connection	terminal compartment
Material	
Housing	Plastic ABS, flame resistant
Optical face	Plastic pane
Mass	100.7 g
Note	Safety fuse ≤ 2 A (slow-blow) according to IEC 60127-2 Sheet 1 Recommendation: after a short circuit, check that the device is functioning correctly.

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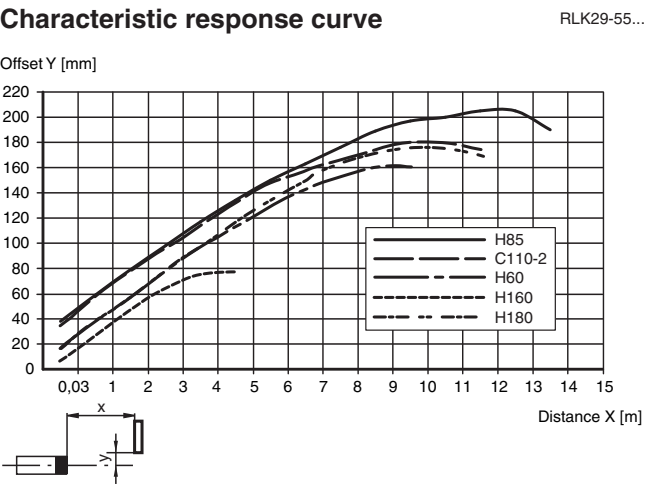
Connection Assignment



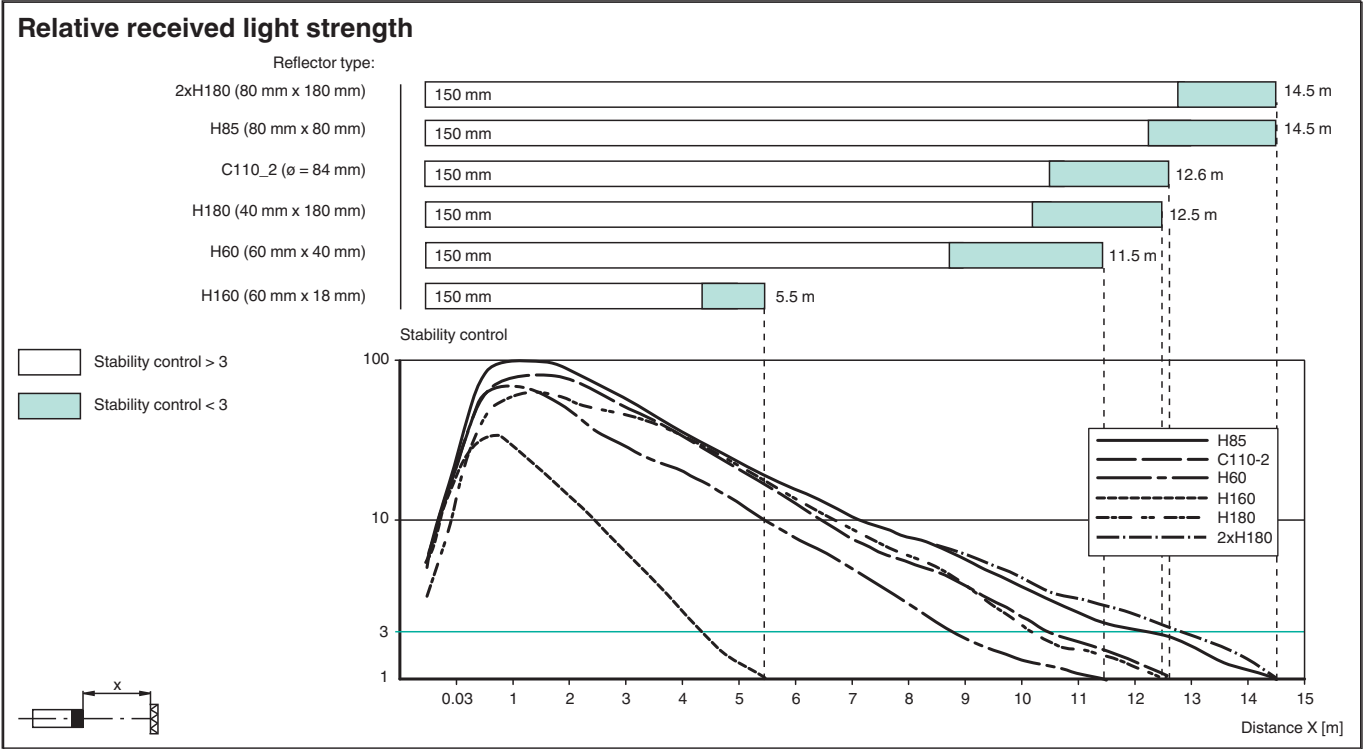
Assembly



Characteristic Curve



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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: mounting aid for sensors in the RL* series

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

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