



Model Number

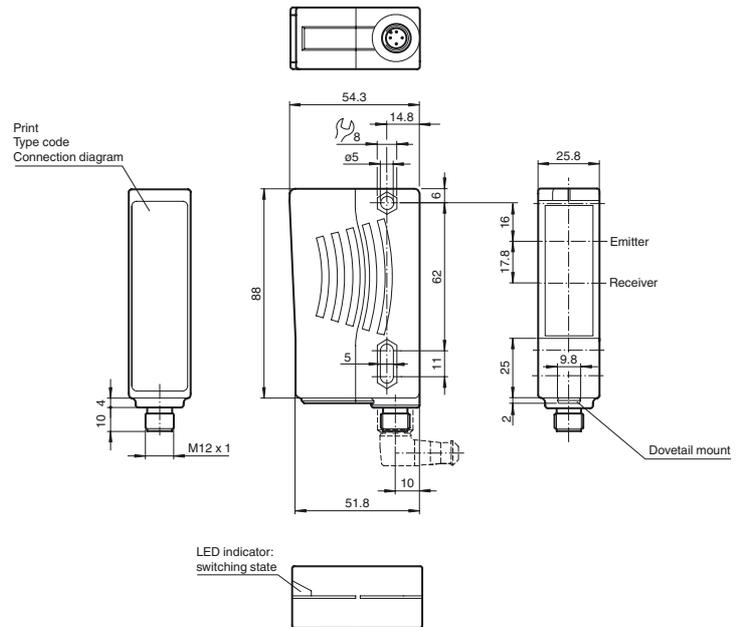
RL29-55/25/73c/136

Retroreflective sensor
with 4-pin, M12 x 1 plastic connector

Features

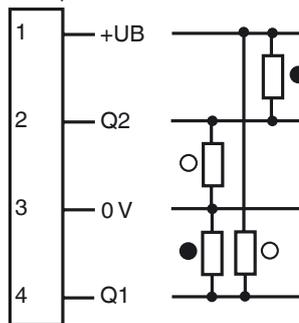
- Highly visible LED
- Powerful push-pull output
- Optimal price/power ratio
- Protection class II

Dimensions



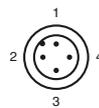
Electrical connection

Option:



- = Light on
- = Dark on

Pinout



Wire colors in accordance with EN 60947-5-2

- 1 | BN (brown)
- 2 | WH (white)
- 3 | BU (blue)
- 4 | BK (black)

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Technical data**General specifications**

Effective detection range	0.1 ... 7 m
Threshold detection range	10 m
Reference target	H85 reflector
Light source	LED, 660 nm
Light type	modulated visible red light
Polarization filter	yes
Diameter of the light spot	approx. 150 mm at a distance of 7 m
Angle of divergence	Emitter: 1.2 ° , Receiver: 2 °
Ambient light limit	80000 Lux

Functional safety related parameters

MTTF _d	1982.2 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

Function indicator	LED yellow, light with free light beam , flashes when falling short of the stability control
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Electrical specifications

Operating voltage	U _B	10 ... 30 V DC , class 2
Ripple		10 %
No-load supply current	I ₀	≤ 30 mA

Output

Switching type	light on	
Signal output	2 push-pull (4 in 1) outputs, short-circuit protected, reverse polarity protected	
Switching voltage	max. 30 V DC	
Switching current	max. 100 mA	
Switching frequency	f	500 Hz
Response time		1 ms

Ambient conditions

Ambient temperature	-25 ... 60 °C (-13 ... 140 °F)
Storage temperature	-40 ... 75 °C (-40 ... 167 °F)

Mechanical specifications

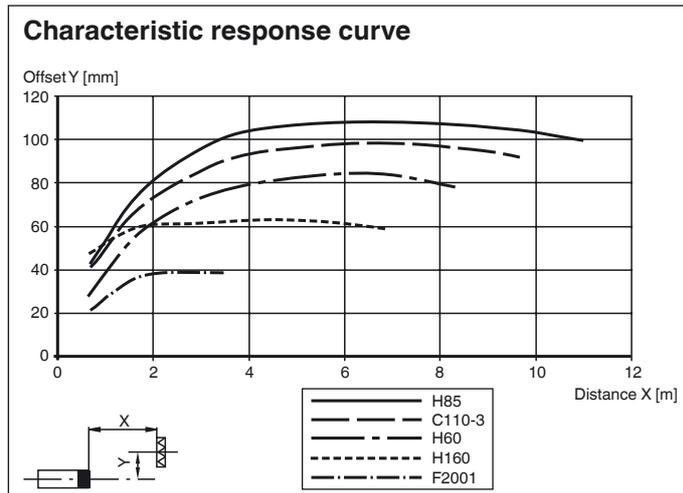
Housing width	25.8 mm
Housing height	88 mm
Housing depth	54.3 mm
Degree of protection	IP65
Connection	Plastic connector M12 x 1, 4-pin
Material	
Housing	Plastic ABS
Optical face	plastic
Mass	70 g

Compliance with standards and directives

Directive conformity	
EMC Directive 2004/108/EC	EN 60947-5-2:2007

Approvals and certificates

UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	CCC approval / marking not required for products rated ≤36 V
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)

Curves/Diagrams**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-MLV11-K

dove tail mounting clamp

OMH-RLK29-HW

Mounting bracket for rear wall mounting

OMH-RL28-C

Weld slag cover model

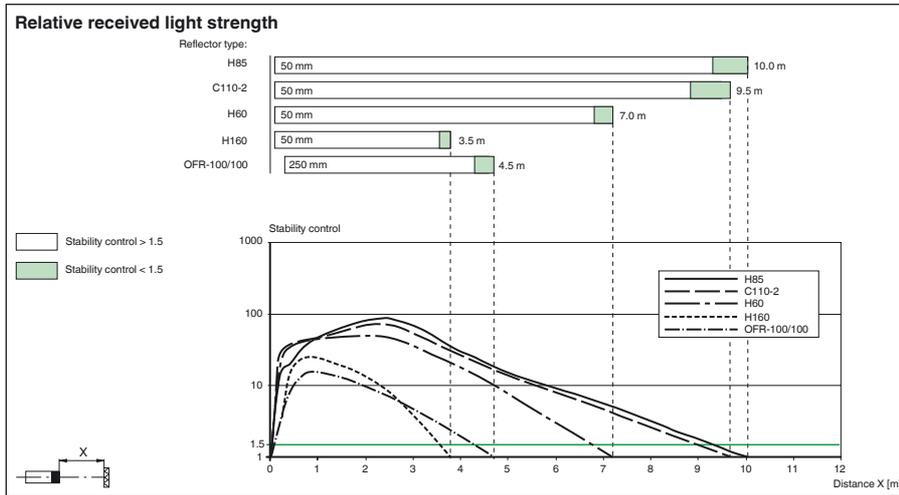
V1-G-2M-PUR

Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

Suitable reflectors and cable sockets can be found in the Internet



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

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