



Model Number

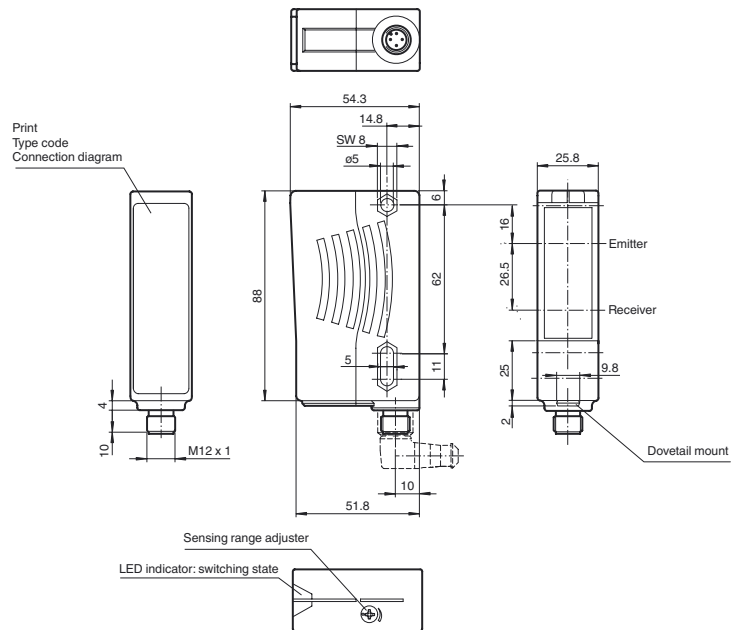
RL29-8-H-1200-RT/59/73c/136

Background suppression sensor
with 4-pin, M12 x 1 plastic connector

Features

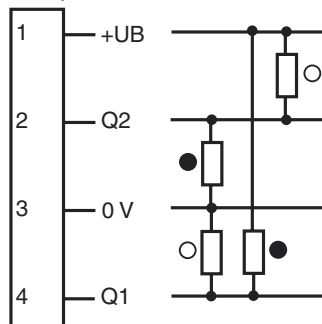
- Highly visible LED
- Good alignability due to red transmission LED
- Minimal black/white difference
- Powerful push-pull output
- Optimal price/power ratio
- Protection class II

Dimensions



Electrical connection

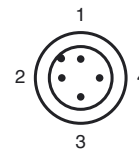
Option:



○ = Light on

● = Dark on

Pinout



Technical data

General specifications

Detection range	30 ... 1200 mm , adjustable
Detection range min.	20 ... 200 mm
Detection range max.	30 ... 1200 mm
Light source	LED 660 nm
Light type	modulated visible red light
Black/White difference (6 %/90 %)	< 35 % at 1200 mm sensor range
Approvals	CE, cULus Listed 57M3 (Only in association with UL Class 2 power supply; Type 1 enclosure)
Diameter of the light spot	approx. 25 mm at a distance of 1200 mm
Angle of divergence	Emitter: 1.2 ° , Receiver: 2 °
Ambient light limit	50000 Lux

Functional safety related parameters

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

Indicators/operating means

Function display	LED yellow: switching state
Controls	Detection range adjuster

Electrical specifications

Operating voltage	U _B	10 ... 30 V DC , class 2
Ripple		10 %
No-load supply current	I ₀	≤ 40 mA

Output

Switching type	dark 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 125 Hz
Response time	4 ms

Ambient conditions

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

Mechanical specifications

Protection degree	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

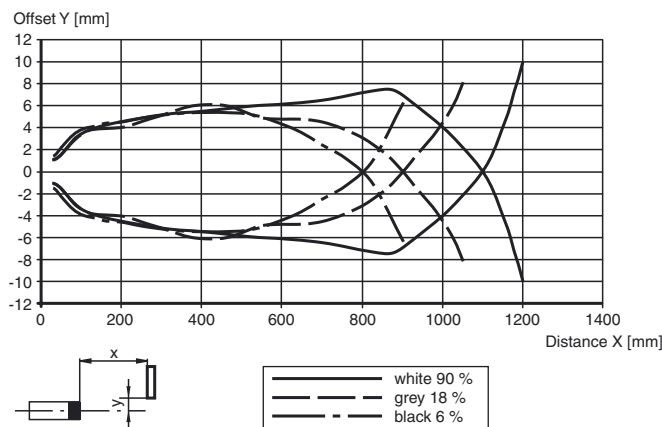
Approvals and certificates

UL approval	cULus Listed, Class 2 Power Source, Type 1 enclosure
CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

Curves/Diagrams

Characteristic response curve

RL29-8-H1200-RT



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

Cable socket, M12, 4-pin, PUR cable

V1-W-2M-PUR

Cable socket, M12, 4-pin, PUR cable

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

