



Model Number

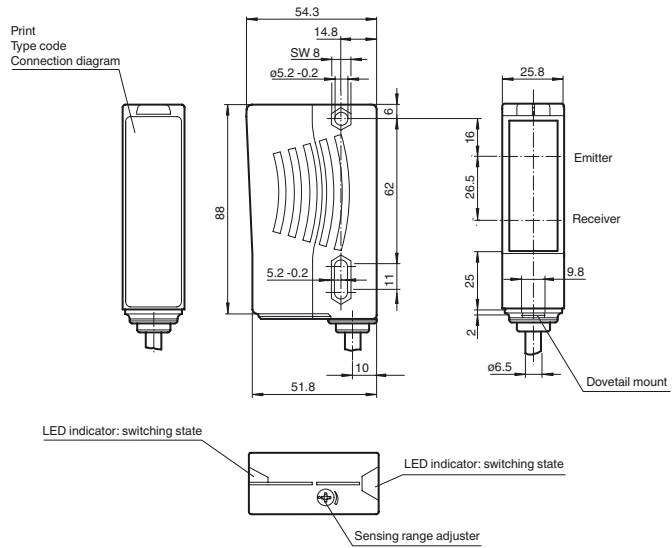
RL29-8-H-1200-RT/115/136

Background suppression sensor
with 2.5 m fixed cable

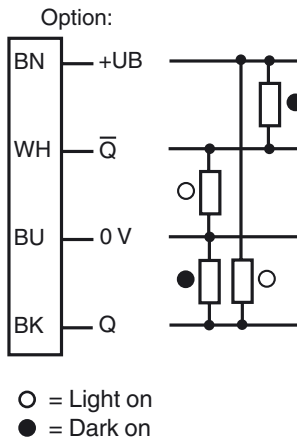
Features

- 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



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Subject to modifications without notice

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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 | 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 | 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

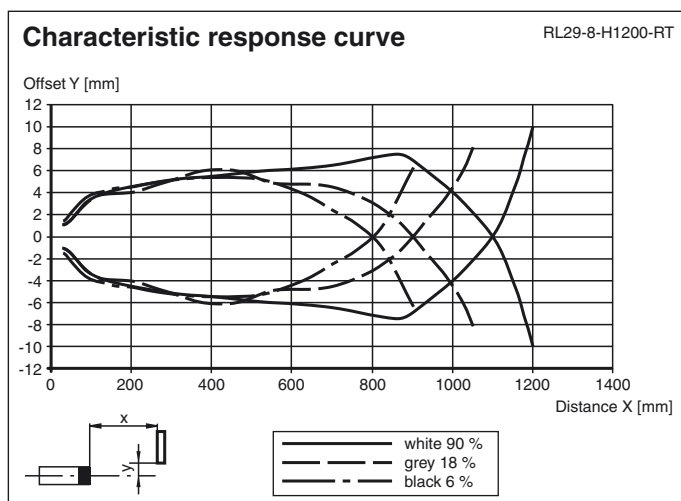
| | |
|-------------------|---------------------|
| Protection degree | IP65 |
| Connection | 2500 mm fixed cable |
| Material | |
| Housing | Plastic ABS |
| Optical face | plastic |
| Mass | 180 g |

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**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

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

