

Model Number

Features

Spec. 2.11

Protection class II

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RL28-55-LAS-B3B/73c

with 4-pin, M12 x 1 plastic connector

Sensor with AS interface according to

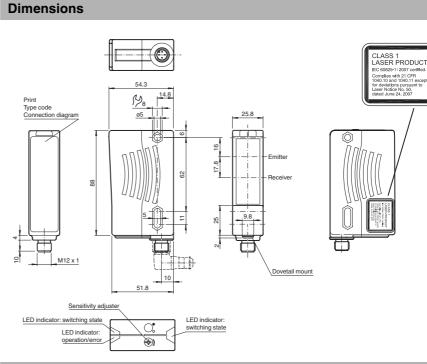
Visible red light, pulsed LASER light

Ultra bright LEDs for power on, pre

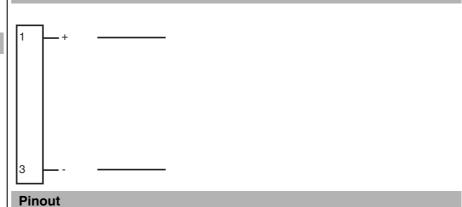
fault indication and switching state Not sensitive to ambient light, even

with switched energy saving lamps

Retroreflective sensor



Electrical connection





Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001

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Technical data General specifications Effective detection range

Reflector distance

Reference target Light source

Wave length Beam divergence

Pulse length

Repetition rate max. pulse energy

Angle of divergence

Ambient light limit

Mission Time (T_M)

Function indicator

Control elements

Protection class

Switching type Signal output

Response time

Timer function

Connection

Housing Optical face

Material

Mass

ves

Ambient conditions

Ambient temperature

Storage temperature

Directive conformity

Standard conformity

Product standard

AS-Interface

Laser class

Mechanical specifications Protection degree

Switching frequency

Input

Output

Test input

Electrical specifications Operating voltage

No-load supply current

Pre-fault indication output

Diagnostic Coverage (DC) Indicators/operating means Operation indicator

MTTF_d

Diameter of the light spot

Functional safety related parameters

Laser nominal ratings

Light type

Note Laser class

Threshold detection range

| | Accessories |
|---|---|
| | VBP-HH1-V3.0-KIT |
| 0 30 m | AS-Interface Handheld with accessory |
| 0.3 30 m | Ao menace nanciela with accessory |
| 42 m | VBP-HH1 |
| MH82 reflector | Handheld programming device |
| laser diode | |
| modulated visible red light | ОМН-05 |
| | Mounting aid for round steel ø 12 mm or |
| LASER LIGHT , DO NOT STARE INTO BEAM | sheet 1.5 mm 3 mm |
| 1 | |
| 650 nm | OMH-07 |
| < 1.5 mrad | Mounting aid for round steel ø 12 mm or |
| approx. 4.5 µs | sheet 1.5 mm 3 mm |
| approx. 6 kHz 20 kHz | OMH-21 |
| 4 nJ | • |
| approx. 45 mm at 30 m | Mounting bracket |
| Emitter: < 0.1 ° Receiver: < 2 ° | OMH-22 |
| 50000 Lux | Mounting bracket |
| | inculting practice |
| 1200 a | OMH-MLV11-K |
| 20 a | dove tail mounting clamp |
| 60 % | |
| | OMH-RLK29-HW |
| dual-LED green/red | Mounting bracket for rear wall mounting |
| green: AS-Interface voltage, normal operation red: communication error or address 0 | OMH-RL28-C |
| red/green flashing: peripherie fault | |
| LED yellow: | Weld slag cover model |
| 1. LED lit constantly: signal > 2 x switching point (function | REF-MH82 |
| reserve) | Reflector with Micro-structure, rectangu- |
| LED flashes: signal between 1 x switching point and 2 x switching point | lar 82 mm x 60 mm, mounting holes |
| 3. LED off: signal < switching point | ar oz min x oo min, mounting noies |
| sensitivity adjustment (Adjustment to < 25% of the effective ope- | Other suitable accessories can be found a |
| rating range) | www.pepperl-fuchs.com |
| | |
| 26.5 31.6 V via AS-Interface network , min. 18.5 V | |
| ≤ 40 mA | |
| II, rated insulation voltage \leq 250 V AC with pollution degree 1-2 | |
| according to IEC 60664-1 | |
| | |
| Data bit D2: | |
| 0: emitter on 1: emitter off | |
| | |
| data bit D1: | |
| 0: stability control falls for approx. 10 s (LED yellow is flashing) or | |
| at once 0 after the 4. light beam interruptionch during the flashti- | |
| met | |
| 1: sufficient stability control | |
| light/dark on switchable via AS-i bus system | |

1: sufficient stability control light/dark on switchable via AS-i bus system **AS-Interface** 1000 Hz 0.5 ms Impulsed off-delay IAB, 50 ms, switchable via AS-Interface -10 ... 50 °C (14 ... 122 °F) -20 ... 75 °C (-4 ... 167 °F) **IP67** Plastic connector M12 x 1, 4-pin Plastic ABS Plastic pane 80 g Compliance with standards and directi-EMC Directive 2004/108/EC EN 60947-5-2:2007 IEC 60947-5-2:2007 EN 50295 AS-i Complete Spec 2.11 IEC 60825-1:2007 Complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007

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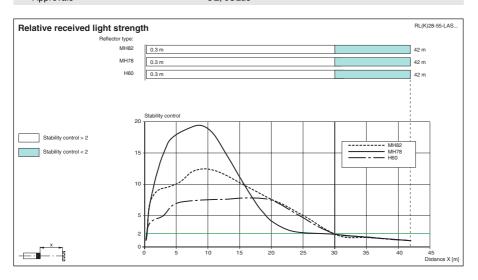
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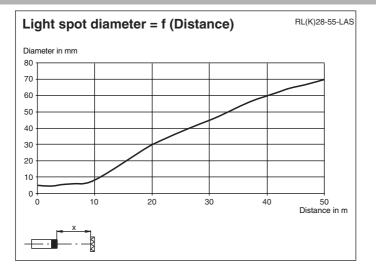
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CCC approval Approvals

CCC approval / marking not required for products rated ≤36 V CE, cULus



Curves/Diagrams



AS-Interface programming

<F id="261">Address preset to 00, can be changed via Busmaster or programming devices IO-Code 3 ID-Code A

ID2 1

Data bit

<F id="263">Bitfunction

- Switch output (0=light beam free, 1=light beam interrupted) applies to P1=0 D0
- Pre-fault indicator (0=alarm, 1=no alarm) Test function (0=emitter ON, 1=emitter OFF) D1
- D2
- D3 not used Parameter bit
- <F id="263">Bitfunction (1/0)
- P0 not used
- P1
- Light/dark-changeover switch (0=DS, 1=HS) P2 Time function IAB, 50 ms (0=time ON, 1=time OFF)
- P3not used

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Laser notice laser class 1

- The irradiation can lead to irritation especially in a dark environment. Do not point at people!
- Maintenance and repairs should only be carried out by authorized service personnel! ٠
- Attach the device so that the warning is clearly visible and readable. ٠
- Caution Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

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