











# VISC0

## **Model Number**

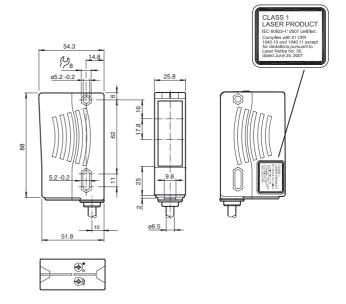
## RL28-55-LAS/47/82b/115

Retroreflective sensor with 2.5 m fixed cable

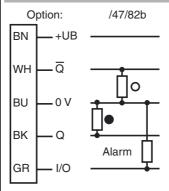
## **Features**

- 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
- Protection class II
- Waterproof, degree of protection IP67

## **Dimensions**

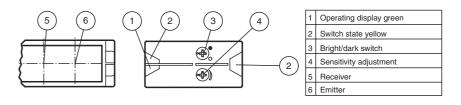


## **Electrical connection**



- O = Light on
- = Dark on

## Indicators/operating means



### **Technical data** General specifications Effective detection range 0 ... 30 m 0.3 ... 30 m Reflector distance 42 m Threshold detection range MH82 reflector Reference target Light source laser diode Light type modulated visible red light Laser nominal ratings Note LASER LIGHT . DO NOT STARE INTO BEAM Laser class 650 nm Wave length Beam divergence < 1.5 mrad Pulse length approx. 4.5 µs Repetition rate approx. 6 kHz ... 20 kHz max. pulse energy 4 n.l Diameter of the light spot approx. 45 mm at 30 m Angle of divergence Emitter: < 0.1 ° Receiver: < 2 ° 50000 Lux Ambient light limit Functional safety related parameters $MTTF_d$ 1000 a Mission Time (T<sub>M</sub>) 20 a 0 % Diagnostic Coverage (DC) Indicators/operating means Operation indicator LED green Function indicator 2 LEDs yellow, light up when light beam is free, flash when falling short of the stability control, off when light beam is interrupted sensitivity adjustment (Adjustment to $<\!25\%$ of the effective operating range) , Light/Dark switch Control elements **Electrical specifications** Operating voltage 10 ... 30 V DC max. 10 % Ripple No-load supply current ≤ 35 mA Protection class II, rated insulation voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1 Output Pre-fault indication output 1 PNP, inactive when falling short of the stability control for 10;s immediately inactive if 4 light beam interruptions take place light/dark on switchable Switching type 2 PNP, complementary, short-circuit protected, reverse polarity Signal output protected , open collectors max. 30 V DC Switching voltage Switching current max. 200 mA ≤ 2.5 V DC Voltage drop Switching frequency 1000 Hz Response time 0.5 ms **Ambient conditions** -10 ... 50 °C (14 ... 122 °F) Ambient temperature Storage temperature -20 ... 75 °C (-4 ... 167 °F) **Mechanical specifications** Protection degree IP67 Connection 2500 mm fixed cable Material Housing Plastic ABS Optical face Plastic pane 80 g Compliance with standards and directi-EMC Directive 2004/108/EC Directive conformity Standard conformity Product standard EN 60947-5-2:2007 IEC 60947-5-2:2007 Laser class 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 Approvals and certificates CCC approval CCC approval / marking not required for products rated ≤36 V

### **Accessories**

### **OMH-05**

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

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

### REF-MH82

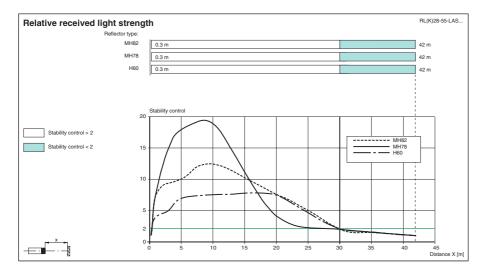
Reflector with Micro-structure, rectangular 82 mm x 60 mm, mounting holes

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

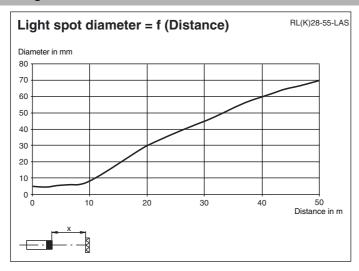
PEPPERL+FUCHS

CE. cULus

Approvals



## **Curves/Diagrams**



## 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!
- Attach the device so that the warning is clearly visible and readable.
- Caution Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.