













VISC0

Model Number

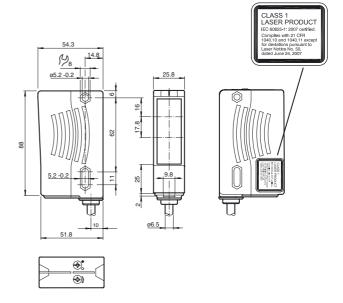
RL28-55-LAS/47/82b/115

Retroreflective sensor with 2.5 m fixed cable

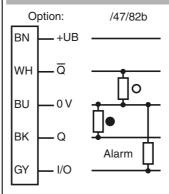
Features

- Visible red light, pulsed LASER light
- Ultra bright LEDs for power on, weak signal indication and switching state
- Not sensitive to ambient light, even with switched energy saving lamps
- Protection class II
- Waterproof, degree of protection IP67

Dimensions

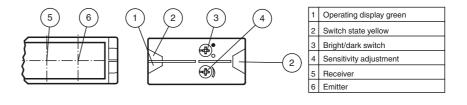


Electrical connection



- O = Light on
- = Dark on

Indicators/operating means



Technical data		
General specifications		
Effective detection range		0 30 m
Reflector distance		0.3 30 m
Threshold detection range		42 m
Reference target		MH82 reflector
Light source		laser diode
Light type		modulated visible red light
Polarization filter		yes
Laser nominal ratings Note		LASER LIGHT , DO NOT STARE INTO BEAM
Laser class		1
Wave length		650 nm
Beam divergence		< 1.5 mrad
Pulse length		approx. 4.5 μs
Repetition rate		approx. 6 kHz 20 kHz
max. pulse energy		4 nJ
Diameter of the light spot		approx. 45 mm at 30 m
Angle of divergence Ambient light limit		Emitter: < 0.1 ° Receiver: < 2 ° 50000 Lux
Functional safety related param	neters	30000 Eux
MTTF _d	icicis	560 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
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
Control elements		sensitivity adjustment (Adjustment to < 25% of the effective operating range) , Light-on/dark-on changeover switch
Electrical specifications Operating voltage	U _B	10 30 V DC
Ripple	ОВ	max. 10 %
No-load supply current	I ₀	≤ 35 mA
Protection class	Ü	II, rated insulation voltage \leq 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
Switching type		light/dark on switchable
Signal output Switching voltage		2 PNP, complementary, short-circuit protected, reverse polarity protected , open collectors max. 30 V DC
Switching current		max. 200 mA
Voltage drop	U _d	≤ 2.5 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms
Conformity		
Product standard		EN 60947-5-2
Laser safety		EN 60825-1
Ambient conditions Ambient temperature		-10 50 °C (14 122 °F)
Storage temperature		-20 75 °C (-4 167 °F)
Mechanical specifications		
Housing width		25.8 mm
Housing height		88 mm
Housing depth		54.3 mm
Degree of protection		IP67
Connection		2500 mm fixed cable
Material Housing		Plastic ABS
Optical face		Plastic pane
Mass		80 g
Approvals and certificates		9
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		E87056 , cULus Listed , class 2 power supply , type rating 1
FDA approval		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

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

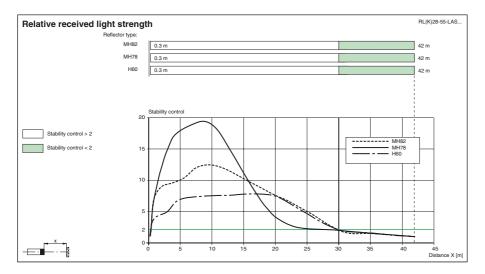
OMH-RL28-C

Weld slag cover model

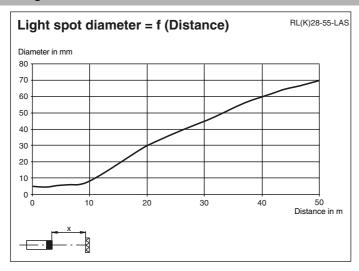
REF-MH82

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

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



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.