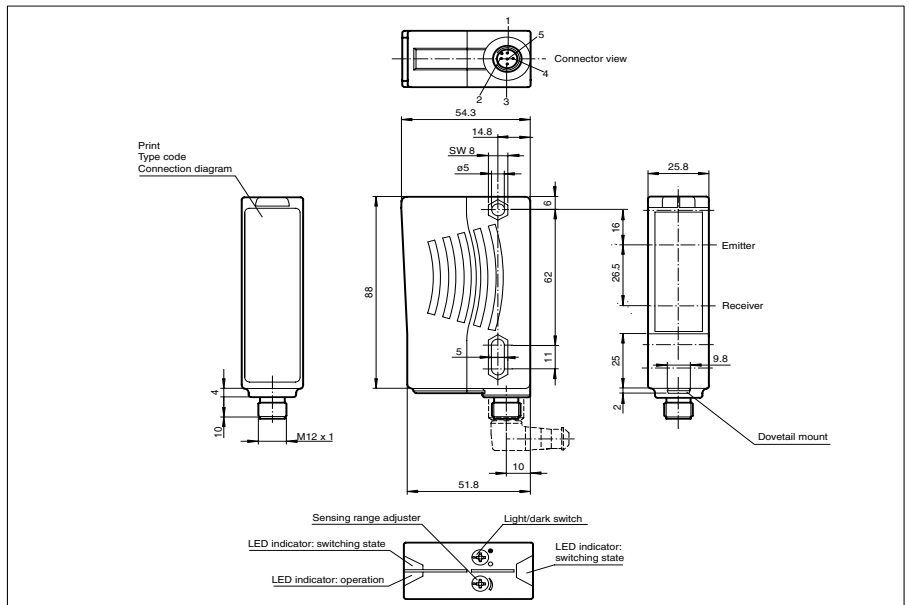




Dimensions



Model Number

RL28-8-H-1500-LAS/47/105

Diffuse mode sensor with background suppression
with 5-pin, M12 x 1 plastic connector

Features

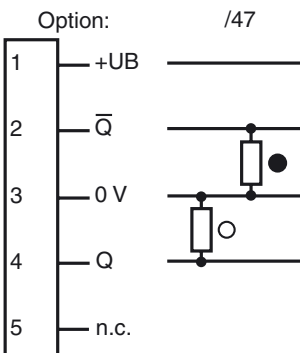
- Visible red light, pulsed LASER light
- Small light beam diameter for detection of small parts
- Ultra bright LEDs for power on and switching state
- Not sensitive to ambient light, even with energy saving lamps
- Waterproof, protection class IP67
- Protection class II

Accessories

- OMH-05**
Mounting aid
- OMH-07**
Mounting aid
- OMH-21**
Mounting aid
- OMH-22**
Mounting aid
- OMH-MLV11-K**
Mounting aid
- OMH-RLK29**
Mounting aid
- OMH-RLK29-HW**
Mounting aid
- OMH-RL28-C**
Mounting aid

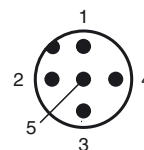
Additional accessories can be found in the Internet.

Electrical connection



- = Light on
- = Dark on

Pinning according



Release date: 2007-11-27 14:35 Date of issue: 2007-11-27 180708_ENG.xml

Technical data**General specifications**

Detection range	100 ... 1500 mm
Detection range min.	50 ... 200 mm
Detection range max.	100 ... 1500 mm
Light source	laser diode , 650 nm
Optical power output	< 1 mW
Light spot representation	max. 1.5 mm x 4 mm , light spot crossways to longitudinal direction
Black/White difference (6 %/90 %)	≤ 40 %
Approvals	CE, cULus
Background suppression	max. + 10 % of the upper limit of the detection range
Laser class	1 acc. to IEC 60825-1
Transmitter frequency	approx. 2.7 kHz
Pulse duration	approx. 4.5 μs
Light type	red, modulated light
Beam divergence	max. ≤ 1 mrad
Ambient light limit	50000 Lux

Indicators/operating means

Operating display	LED green
Function display	2 LEDs yellow on: object inside the scanning range off: object outside the scanning range
Operating elements	Light/dark switch
Operating elements	sensing range adjuster

Electrical specifications

Operating voltage	10 ... 30 V DC
Protection class	II, rated voltage ≤ 250 V AC with degree of pollution 1-2 according to IEC 60664-1
Ripple	10 %
No-load supply current	I_0 ≤ 40 mA
Time delay before availability	t_v ≤ 1.5 s

Output

Switching type	Light/dark ON, switchable
Signal output	2 pnp outputs, antivalent, short-circuit proof, protected from reverse polarity, open collector
Switching voltage	max. 30 V DC
Switching current	max. 200 mA
Switching frequency	f 250 Hz
Response time	2 ms

Standard conformity

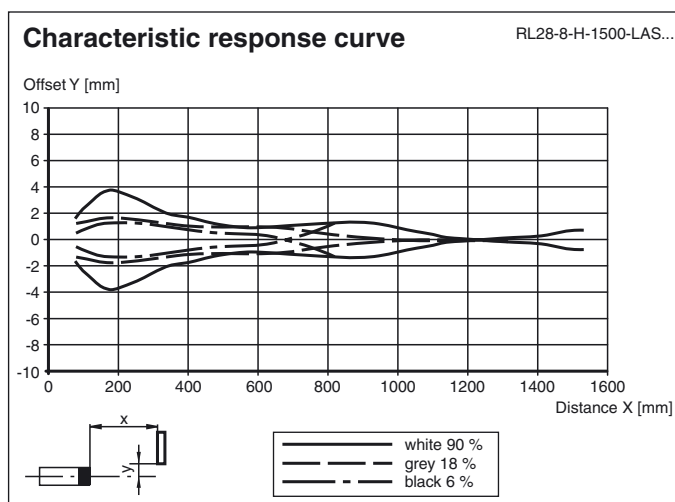
Standards	EN 60947-5-2
Standards 2	EN 60825-1
Standards 3	21CFR1040.10

Ambient conditions

Ambient temperature	-10 ... 50 °C (263 ... 323 K)
Storage temperature	-25 ... 75 °C (248 ... 348 K)

Mechanical specifications

Protection degree	IP67
Connection	plastic connector M12 x 1, 5-pin
Material	
Housing	Plastic ABS
Optical face	plastic
Mass	approx. 70 g



Curves/Diagrams

