









Model Number

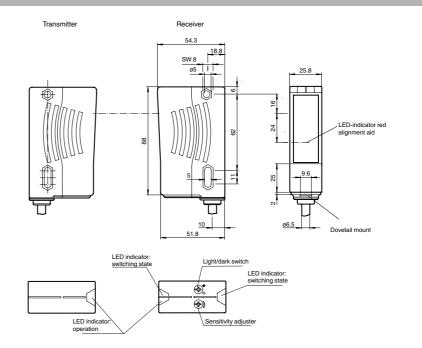
LD28/LV28-F2/47/76a/82b/115

Thru-beam sensor with 2.5 m fixed cable

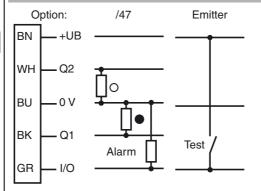
Features

- Ultra bright LEDs for power on, pre fault indication and switching state
- Highly visible LED as alignment aid in receiver optics
- Emitter deactivation
- Various transmitter frequencies
- Not sensitive to ambient light, even with switched energy saving lamps
- Waterproof, degree of protection IP67
- Protection class II

Dimensions



Electrical connection



- O = Light on
- = Dark on

1

Technical data		
System components		
Emitter		LD28-F2/76a/115
Receiver		LV28-F2/47/82b/115
General specifications		
Effective detection range		0 30 m
Threshold detection range		40 m LED
Light source Light type		modulated visible red light , 660 nm
Alignment aid		LED red (in receiver lens)
,		illuminated constantly: beam is interrupted, flashes: reaching switching point, off: sufficient stability control
Transmitter frequency		F2 = 30 kHz
Diameter of the light spot		approx. 0.6 m at 30 m
Angle of divergence Ambient light limit		Emitter 1.2°, Receiver 5° 50000 Lux
Functional safety related parame	tore	30000 Eux
MTTF _d	lei 5	620 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		90 %
Indicators/operating means		
Operation indicator		LED green
Function indicator		LED yellow:
		1. LED lit constantly: signal > 2 x switching point (function
		reserve) 2. LED flashes: signal between 1 x switching point and 2 x swit-
		ching point
		3. LED off: signal < switching point
Control elements		sensitivity adjustment (Adjustment to < 25% of the effective operating range), Light/Dark switch
Electrical specifications		raing range), Light Bark emich
Operating voltage	U _B	10 30 V DC
Ripple	- 6	10 %
No-load supply current	I ₀	Emitter: ≤ 50 mA
		Receiver: ≤ 35 mA
Input		"" 1 " "
Test input		emitter deactivation at +U _B (I _{max.} < 3 mA at 30 V DC)
Output Dre fault indication output		1 DND translator abort aircuit protected protected from reverse
Pre-fault indication output		1 PNP transistor, short-circuit protected, protected from reverse polarity, open collector, Umax = 30 V DC, Imax = 0.2 A The output becomes inactive if the signal level has fallen below the function reserve for approx. 10 s (yellow and red LEDs flash) If the light beam is interrupted four times during this period, the output immediately becomes inactive.
Switching type		light/dark on, switchable
Signal output		2 PNP, complementary, short-circuit protected, reverse polarity
2		protected , open collectors
Switching voltage		max. 30 V DC max. 200 mA
Switching current Switching frequency	f	1000 Hz
Response time	•	0.5 ms
Ambient conditions		
Ambient temperature		-40 60 °C (-40 140 °F)
Storage temperature		-40 75 °C (-40 167 °F)
Mechanical specifications		
Protection degree		IP67
Connection		2.5 m, 5-wire, fixed cable, Euronorm
Material		
Housing		Plastic ABS
Optical face		Plastic pane
Mass Compliance with standards and of	directi-	500 g (emitter and receiver)
Ves		
Standard conformity Product standard		EN 60947-5-2:2007
Product standard		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1
UL approval		cULus
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

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

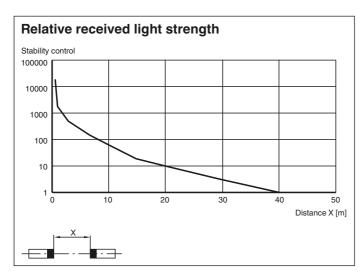
OMH-RLK29-HW

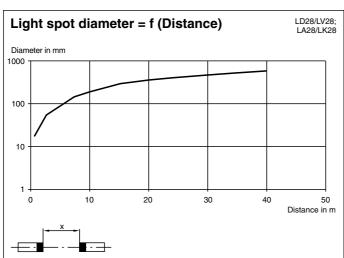
Mounting bracket for rear wall mounting

OMH-RL28-C

Weld slag cover model

Additional accessories can be found in the Internet.





www.pepperl-fuchs.com