



□ VISC\$

Model Number

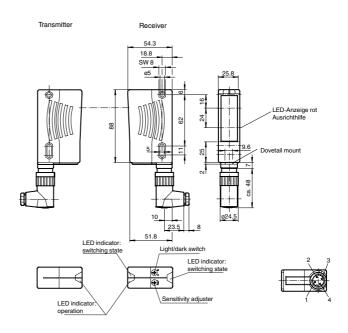
LD28/LV28-F1/49/74/76a

Thru-beam sensor with 4-pin, M18 x 1 plastic connector

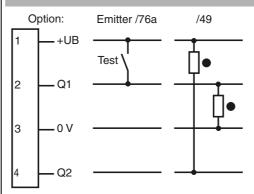
Features

- Universal series with highly versatile fields of use
- Resistant against noise: reliable operation under all conditions
- Highly visible LED as alignment aid in receiver optics
- Emitter with test input
- Version with red light

Dimensions



Electrical connection



- O = Light on
- = Dark on

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Technical data				
System components				
Emitter		LD28-F1/74/76a		
Receiver		LV28-F1/49/74		
General specifications				
Effective detection range		0 30 m		
Threshold detection range		40 m		
Light source		LED		
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		F1 = 25 kHz		
Diameter of the light spot		approx. 0.6 m at 30 m		
Angle of divergence		Emitter 1.2°, Receiver 5°		
Ambient light limit		50000 Lux		
Functional safety related paran	neters			
MTTF _d		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)		
		LED flashes: signal between 1 x switching point and 2 x switching point LED off: signal < switching point		
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		10 %		
No-load supply current	I ₀	Emitter: ≤ 50 mA Receiver: ≤ 35 mA		
Input		and the side activistic and all (I) and act (I) (I)		
Test input		emitter deactivation at +U _B (I _{max.} < 3 mA at 30 V DC)		
Output		limba/alanda ana ana da barbarbar		
Switching type Signal output		light/dark on, switchable 1 NPN, 1 PNP synchronized-switching, short-circuit protected, reverse polarity protected, open collectors		
Switching voltage		max. 30 V DC		
Switching current		max. 200 mA		
Switching frequency	f	1000 Hz		
Response time		0.5 ms		
Conformity				
Product standard		EN 60947-5-2		
Ambient conditions				
Ambient temperature		-40 60 °C (-40 140 °F)		
Storage temperature		-40 75 °C (-40 167 °F)		
Mechanical specifications				
Housing width		25.8 mm		
Housing height		88 mm		
Housing depth		54.3 mm		
Degree of protection		IP67		
Connection		4-pin, M18 plastic connector		
Material				
Housing		Plastic ABS		
Optical face		Plastic pane		
Mass		140 g (emitter and receiver)		
Ammunuolo and soutificate				
Approvals and certificates		II wated valtage < 050 V AC with a sile time of a		
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1		
UL approval		cULus Listed , Class 2 power source		
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.

Curves/Diagrams

