1







C € CÛL

# VISC\$

## **Model Number**

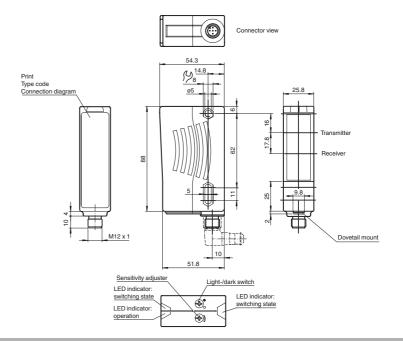
### RL28-55-V/47/82b/105

Retroreflective sensor with 5-pin, M12 x 1 plastic connector

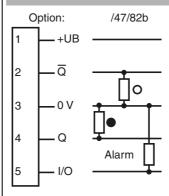
### **Features**

- Foreground suppression, suited to recording of sheet-shrink-wrapped objects
- Ultra bright LEDs for power on, weak signal indication and switching state
- 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

### **Pinout**

Wire colors in accordance with EN 60947-5-2



1 BN (brown)
2 WH (white)
3 BU (blue)
4 BK (black)
5 GY (gray)



Technical data		
General specifications		
Effective detection range		0 13 m
Reflector distance		0.5 13 m (blind range 0 0.2 m faded out)
Threshold detection range		17 m
Reference target		H85-2 reflector
Light source		LED
Light type		modulated visible red light , 660 nm
Polarization filter		yes
Diameter of the light spot		approx. 220 mm at a distance of 13 m
Angle of divergence		emitter 1.2° receiver 2°
Ambient light limit		80000 Lux
Functional safety related parar	neters	
MTTF <sub>d</sub>		690 a
Mission Time (T <sub>M</sub> )		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 <sub>B</sub>	10 30 V DC
Ripple		10 %
No-load supply current	I <sub>0</sub>	≤ 40 mA
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		2 PNP, complementary, 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		10 111 10 0 ( 10 111 10 1 1 )
		25.8 mm
Housing width		
Housing height		88 mm
Housing depth		54.3 mm
Degree of protection		IP67
Connection		5-pin, M12 x 1 connector
Material		BL /: ABO
Housing		Plastic ABS
Optical face		plastic
Connector		plastic
Mass		70 g
Approvals and certificates		
• •		II reted voltage < 050 \/ AC with nell-time degree 1.0
Protection class		II, rated voltage ≤ 250 V AC with pollution degree 1-2 according to IEC 60664-1

### **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

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

**UL** approval

E87056, cULus Listed, class 2 power supply, type rating 1

# **Curves/Diagrams**

