

Model Number

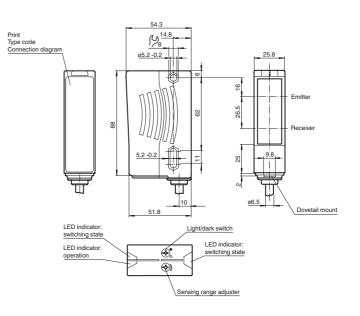
RL28-8-H-700-RT/49/115

Background suppression sensor with 2.5 m fixed cable

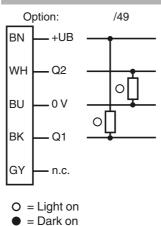
Features

- Ultra bright LEDs for power on and switching state
- Good alignability due to red transmission LED
- Not sensitive to ambient light, even with switched energy saving lamps
- Waterproof, protection degree IP67
- Protection class II





Electrical connection





Subject to modifications without notice Pepperl+Fuchs Group www.pepperl-fuchs.com fa-info

USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com



UL approval

CCC approval

Technical data			Accessories	
			ACCESSORES	
General specifications			OMH-05 Mounting aid for sheet 1.5 mm	
Detection range		20 700 mm		
Detection range min.		20 200 mm		
Detection range max.		20 700 mm		
Background suppression Light source		max. + 10 % of the upper limit of the detection range LED	OMH-07 Mounting aid for sheet 1.5 mm 3	
Light type Black/White difference (6 %/90 %)		modulated visible red light , 660 nm < 20 %		
Diameter of the light spot		approx. 15 mm at a distance of 700 mm	OMH-21	
Angle of divergence		Emitter 1.2°, Receiver 2°	Mounting bracke	
Ambient light limit		50000 Lux	OMH-22	
Functional safety related param	neters		Mounting bracke	
MTTF _d		1130 a	Mounting bracito	
Mission Time (T _M)		20 a	OMH-MLV11-K dove tail mountin	
Diagnostic Coverage (DC)		0%		
Indicators/operating means				
Operating display		LED green	OMH-RLK29 Mounting bracke OMH-RLK29-HV Mounting bracke	
Function display		2 LEDs yellow ON: object inside the scanning range		
Controls		OFF: object outside the scanning range		
Controls		Light/Dark switch	inounting bracito	
		Detection range adjuster	OMH-RL28-C	
Electrical specifications		40 00 1/ 00	Protective cover	
Operating voltage	UB	10 30 V DC	0.1	
Ripple		10 %	Other suitable acc	
No-load supply current	I ₀	≤ 40 mA	www.pepperl-fuchs	
Output		light/dayl, an awithhahla		
Switching type		light/dark on switchable		
Signal output Switching voltage		1 NPN, 1 PNP synchronized-switching, short-circuit protected, reverse polarity protected , open collectors max. 30 V DC		
Switching current		max. 200 mA		
Switching frequency	f	250 Hz		
Response time	-	2 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		2500 mm fixed cable		
Material				
Housing		Plastic ABS		
Optical face		plastic		
Mass		70 g		
Compliance with standards and ves	d directi	-		
Standard conformity				
Product standard		EN 60947-5-2:2007		
Approvals and certificates				
Protection class		II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1		
LIL opproval				

> cULus Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

r round steel ø 12 mm or 3 mm

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ing clamp

w et for rear wall mounting

ccessories can be found at ns.com

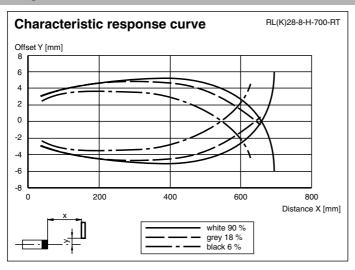
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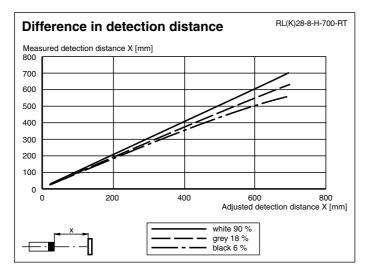
Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com



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Curves/Diagrams





Additional information

Mounting instructions:

There are two bore holes for mounting the sensor with M5 bolts. The base surface must be flat to avoid distorting the housing during mounting. It is advisable to secure the bolts with spring washers so that the sensor does not become misaligned. Outdoor installation:

The sensor must be protected against rain and splash-water, possibly must a cover be installed.

Adjustment:

Adjust the sensor on the background. After the connecting to the power supply the green LED illuminates. In case the yellow LEDs illuminate too, the detection range needs to be reduced with the detection range adjuster, until the yellow LEDs is switched off. If the object is moved into the detection range the yellow LEDs illuminates.

Driving inductive loads:

If the sensor are used to drive inductive loads, the following safety procedures must be carried out: For operating voltage of 10 ... 30 V DC: fit a protection diode, max. 200 mA

