

Model Number

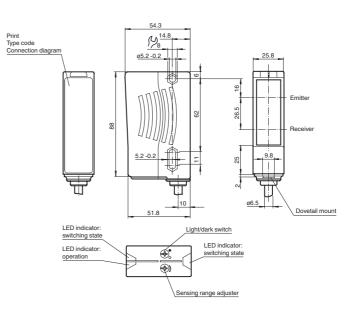
RL28-8-H-700-RT/47/115

Background suppression sensor with 2.5 m fixed cable

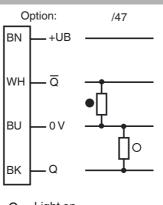
Features

- 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

Dimensions



Electrical connection





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

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Technical data			Accessories	
General specifications			OMH-05	
Detection range		20 700 mm	Mounting aid fo	
Detection range min.		20 200 mm		
Detection range max.		20 700 mm	sheet 1.5 mm	
Background suppression		max. + 10 % of the upper limit of the detection range	OMH-07	
Light source		LED	Mounting aid for	
Light type Black/White difference (6 %/9	0 %)	modulated visible red light , 660 nm < 20 %	sheet 1.5 mm	
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 brack	
Ambient light limit		50000 Lux	OMH-22	
Functional safety related par	ameters		Mounting brack	
MTTF _d		1130 a		
Mission Time (T _M)		20 a	OMH-MLV11-K	
Diagnostic Coverage (DC)		0 %	dove tail mounti	
Indicators/operating means			OMH-RLK29	
Operating display		LED green	•	
Function display		2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range	Mounting brack	
Controls		Light/Dark switch	Mounting brack	
Controls		Detection range adjuster		
Electrical specifications			OMH-RL28-C	
Operating voltage	U _B	10 30 V DC	Protective cover	
Ripple	- 0	10 %	Other suitable ac	
No-load supply current	I ₀	≤ 40 mA	www.pepperl-fuch	
Output	-		P PP	
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	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 Mass		plastic		
Compliance with standards a	محمد المحمد	70 g		
ves Standard conformity	and direct	-		
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		
UL approval		cULus		

UL approval cULus CCC approval

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

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łW ket for rear wall mounting

accessories can be found at hs.com

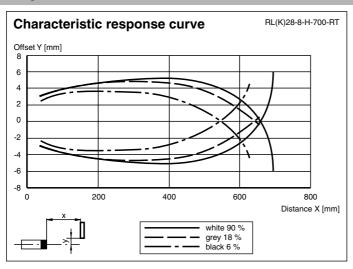
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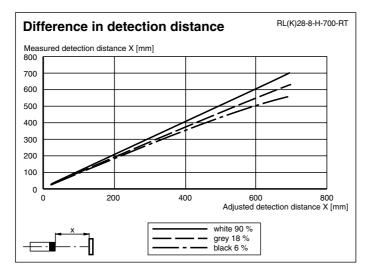




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Curves/Diagrams





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

