

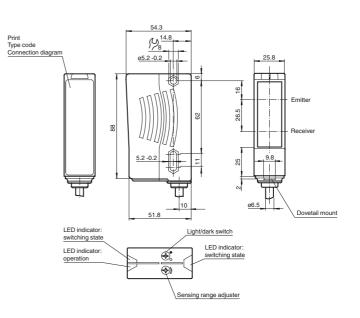
Model Number

RL28-8-H-700-RT/110/115

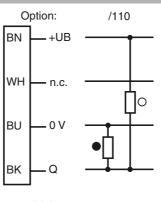
Background suppression sensor with 2.5 m fixed cable

Features

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



Electrical connection







CCC approval

Technical data			Accessories	
			Accessories	
General specifications		20 700 mm	OMH-05	
Detection range		20 200 mm	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm	
Detection range min. Detection range max.		20 200 mm		
Background suppression		max. + 10 % of the upper limit of the detection range	0.0011.07	
Light source		LED	OMH-07 Mounting aid for round steel ø 12 mm or	
Light type		modulated visible red light , 660 nm		
Black/White difference (6 %/90	%)	< 20 %	sheet 1.5 mm 3 mm	
Diameter of the light spot	/0)	approx. 15 mm at a distance of 700 mm	OMH-21	
Angle of divergence		Emitter 1.2°,		
Angle of alvergence		Receiver 2°	Mounting bracket	
Ambient light limit		50000 Lux	OMH-22	
Functional safety related parameters			Mounting bracket	
MTTF _d		1130 a		
Mission Time (T _M)		20 a	OMH-MLV11-K	
Diagnostic Coverage (DC)		0 %	dove tail mounting clamp	
Indicators/operating means			OMH-RLK29 Mounting bracket	
Operating display		LED green		
Function display		2 LEDs yellow		
		ON: object inside the scanning range	OMH-RLK29-HW Mounting bracket for rear wall mounting	
Controlo		OFF: object outside the scanning range		
Controls		Light/Dark switch		
Controls		Detection range adjuster	OMH-RL28-C	
Electrical specifications			Protective cover	
Operating voltage	UB	10 30 V DC	Other suitable accessories can be found at www.pepperl-fuchs.com	
Ripple		10 %		
No-load supply current	I ₀	≤ 40 mA		
Output				
Switching type		light/dark on switchable		
Signal output		1 push-pull output, short-circuit protected, reverse polarity pro- tected		
Switching voltage		max. 30 V DC		
Switching current		max. 100 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 directi- ves				
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 accor-		
		ding to IEC 60664-1		
UL approval		cULus		

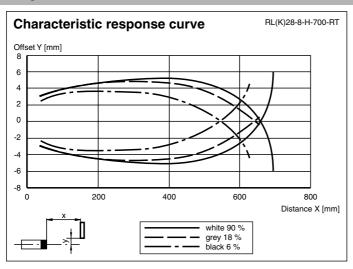
Date of issue: 2011-12-21 421182_eng.xml Release date: 2011-12-21 10:44

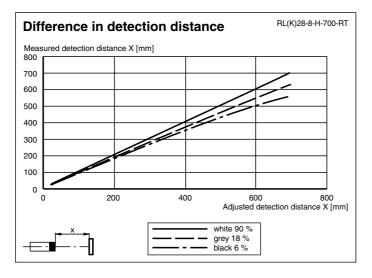
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Products with a maximum operating voltage of \leq 36 V do not bear a CCC marking because they do not require approval.

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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

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

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