

Model Number

RL28-8-H-400-IR/105/110

Background suppression sensor with 5-pin, M12 x 1 plastic connector

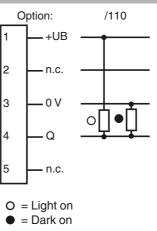
Features

- Ultra bright LEDs for power on and • switching state
- Minimal black-white difference • through the infrared transmission LED
- Powerful push-pull output •
- Not sensitive to ambient light, even with energy saving lamps
- Waterproof, degree of protection IP67 •
- Protection class II •

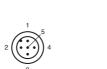
 \odot Connector view 54.3 $\mathcal{P}_{8}^{\frac{14.8}{2}}$ Print Type code Connection diagram ø5 桥 26.5 62 M12 x 1 Dovetail mount 10 51.8 Sensing range adjuste Light/dark switch LED indicator: switching state LED indicator ۴. hing state LED indicate Ð

Electrical connection

Dimensions



Pinout





Wire colors in accordance with EN 60947-5-2

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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Technical data

	20 400 mm
	20 150 mm
	20 400 mm
	max. + 10 % of the upper limit of the detection range
	IRED
	modulated infrared light , 880 nm
%)	< 5 %
	approx. 14 mm at a distance of 400 mm
	transmitter 2° receiver 2°
	50000 Lux
neters	
	720 a
	20 a
	0 %
	LED green
	2 LEDs yellow ON: object inside the scanning range OFF: object outside the scanning range
	Sensing range adjuster , Light-on/dark-on changeover switch
UB	10 30 V DC
	10 %
I ₀	≤ 40 mA
	light/dark on switchable
	1 push-pull (4 in 1) output, short-circuit protected, reverse polarity protected
	max. 30 V DC
	max. 100 mA
f	250 Hz
	2 ms
	EN 60947-5-2
	-40 60 °C (-40 140 °F)
	-40 75 °C (-40 167 °F)
	25.8 mm
	88 mm
	54.3 mm
	IP67
	5-pin, M12 x 1 connector
	Plastic ABS
	plastic
	plastic
	70 g
	II, rated voltage \leq 250 V AC with pollution degree 1-2 according to IEC 60664-1
	neters U _B

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

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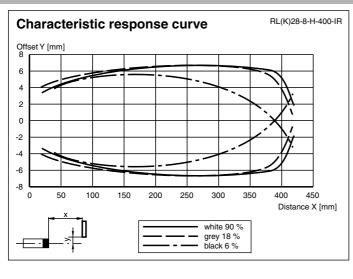
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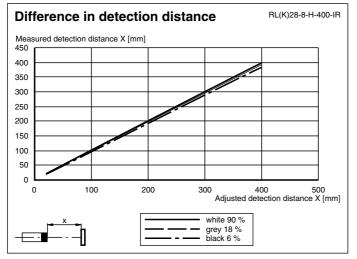
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Curves/Diagrams





Additional information

Intended use:

The transmitter and receiver are located in the same housing for direct detection sensors with background masking. Marking of objects outside the detection range is achieved by arranging the angle between the transmitter and receiver (2 receiver elements).

Objects are detected independently of their surface structures, brightness and colour, as well as the brightness of the background.

Mounting instructions:

The sensors can be fastened directly with fixing screws or with a support bracket (not included with delivery).

The surface underneath must be flat to prevent the housing from moving when it is tightened into position. We recommend securing the nut and screw in place with spring washers to prevent the sensor from going out of adjustment.

Adjustment:

After the operating voltage is applied, the LED is lit green.

Align the sensor to the background. If the yellow LED is lit, the detection range should be reduced with the detection range adjuster until the yellow LED goes out.

Object direction:

Place the object to be detected at the desired maximum detection range and align the light spot to it. If the object is detected, the yellow LED lights up.

If it does not light up, the detection range must be adjusted on the potentiometer until it lights up when an object is detected.

Cleaning:

We recommend cleaning the optical surface and checking the screwed connection and other connections at regular intervals.

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