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OIO-Link

Model Number

OBG8000-R201-2EP-IO-0,3M-V31

Retroreflective sensor (glass) with fixed cable and 4-pin, M8 connector

Features

- Medium design with versatile mounting options
- Detects transparent objects, i.e., clear glass, PET and transparent films
- Two machines in one: clear object detection or reflection operating mode with long range
- High degree of protection IP69K
- IO-link interface for service and process data

Product information

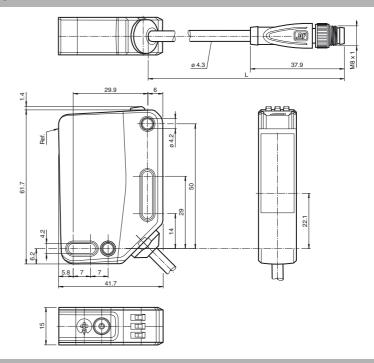
The optical sensors in the series are the first devices to offer an end-to-end solution in a medium-sized standard design-from the thru-beam sensor through to the measuring distance sensor. As a result of this design, the sensors are able to perform practically all standard automation tasks.

The entire series enables sensors to communicate via IO-Link.

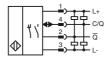
The DuraBeam laser sensors are durable and can be used in the same way as a standard

Multi Pixel Technology (MPT) ensures that the standard sensors are flexible and can be adapted to the application environment.

Dimensions



Electrical connection

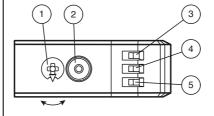


Pinout

Wire colors in accordance with EN 60947-5-2

(brown) (white) WH BU BK (blue) (black)

Indicators/operating means



0	
L/D	Ν
	ı
, i	

1	Mode rotary switch	
2	Teach-in button	
3	Operating indicator/dark-on	GN
4	Function indicator	YE
5	Operating indicator/light-on	GN

N	Normal operation
ı	10 % contrast detection
Ш	18 % contrast detection
Ш	40 % contrast detection
L/D	Switching type
0	Keylock

Accessories

REF-H85-2

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

OFR-100/100

Reflective tape 100 mm x 100 mm

REF-VR10

Reflector, rectangular 60 mm x 19 mm, mounting holes

REF-C110-2

Reflector, round ø 84 mm, central mounting hole

IO-Link-Master02-USB

IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

V31-WM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

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

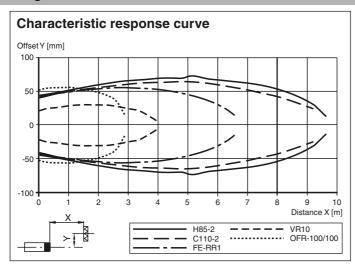
PEPPERL+FUCHS

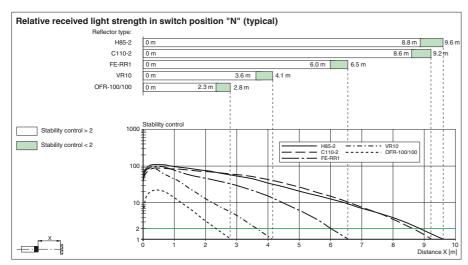
fixed cable 300 mm with M8 x 1 male connector; 4-pin

Connection

Material	
Housing	PC (Polycarbonate)
Optical face	PMMA
Mass	approx. 51 g
Cable length	0.3 m
Approvals and certificates	
UL approval	E87056, cULus Listed, class 2 power supply, type rating 1
CCC approval	CCC approval / marking not required for products rated \leq 36 V

Curves/Diagrams





Settings

Teach-in:

295670-100189_eng.xml

2018-10-15

issue:

Date of

2018-10-15 12:32

Release date:

Use the rotary switch to select the required operating mode: Normal mode (N) or contrast level I – III.

To teach in a threshold or activate an operating mode, press the "TI" button until the yellow and green LEDs flash in phase (approx. 1 s).

Release the "TI" button. Teach-in starts.

Successful teach-in is indicated by alternating flashing (2.5 Hz) of the yellow and green LEDs. The sensor will now operate in the selected operating mode with the taught-in threshold.

An unsuccessful teach-in is indicated by rapidly alternating flashing (8 Hz) of the yellow and green LEDs. After an unsuccessful teach-in, the sensor continues to operate with the previous valid setting after the relevant visual fault signal is issued.

Every taught-in switching threshold can be re-taught (overwritten) by pressing the "TI" button again.

Note: To ensure that the device functions reliably in Contrast mode, the device must be powered on at least 30 s before Teach-in.

Setting the Device to Maximum Sensitivity

Use the rotary switch to select the Normal mode (N) position.

Press the "TI" button for > 4 s. The yellow and green LEDs will go out.

Release the "TI" button.

The settings will be reset to maximum sensitivity. After successfully resetting, the yellow and green LEDs will flash alternately (2.5 Hz).

Switching between light on/dark on

Use the rotary switch to select the light on/dark on (L/D) position.

Press the "TI" button for > 1 s.

The respective operating indicator LED (L/D) will illuminate green and the switching type will change.

To reset the switching type, press the "TI" button for > 4 s.

The respective operating indicator LED (L/D) will illuminate green and the operating indicator will be reset to the most recently active switching type.

Reset to Default Settings

Use the rotary switch to select the O position.

Press the "TI" button for > 10 s. The yellow and the green LEDs will both switch off.

Release the "TI" button. The yellow LED is on.

After resetting, the sensor will operate with the following default settings:

- Normal mode (N)
- · Maximum sensitivity adjustment
- · Dark on
- Pin 2 (white core): antivalent switching output

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