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Model Number

OBR7500-R100-E2-IO-V31

Retroreflective sensor with 4-pin, M8 x 1 connector

Features

- Miniature design with versatile mounting options
- Extended temperature range -40°C ... 60°C
- · High degree of protection IP69K
- IO-link interface for service and process data

Product information

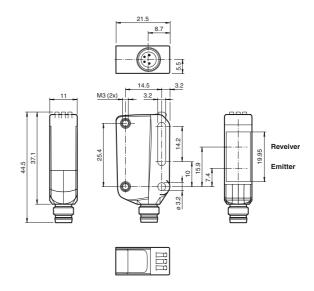
The R100 series miniature optical sensors are the first devices of their kind to offer an end-to-end solution in a small single standard design — from thru-beam sensor through to a distance measurement device. As a result of this design, the sensors are able to perform practically all standard automation tasks.

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

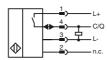
The DuraBeam laser sensors are durable and can be used in the same way as a standard sensor.

The use of Multi Pixel Technology gives the standard sensors a high level of flexibility and enables them to adapt more effectively to their operating environment.

Dimensions



Electrical connection



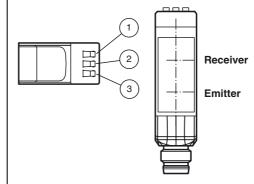
Pinout

Wire colors in accordance with EN 60947-5-2

² 1 3

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

Indicators/operating means



- Operating indicator / dark on
- 2 Signal indicator
- 3 Operating indicator / light on

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0 7.5 m 0.03 7.5 m 10 m H85-2 reflector LED modulated visible red light exempt group yes approx. 65 mm at a distance of 1 m 3.7 ° EN 60947-5-2 724 a 20 a 0 % LED green: constantly on - power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode Yellow LED:
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LED green: constantly on - power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode Yellow LED:
constantly on - power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode Yellow LED:
constantly on - power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode Yellow LED:
Permanently lit - light path clear Permanently off - object detected Flashing (4 Hz) - insufficient operating reserve
IO link communication: green LED goes out briefly (1 Hz)
10 30 V DC
max. 10 %
< 25 mA at 24 V supply voltage
III
IO-Link (via C/Q = pin 4)
COM 2 (38.4 kBaud)
1.1
2.3 ms
Process data input 2 Bit
Process data output 2 Bit
yes
0x110210 (1114640)
A
The default setting is: C/Q - Pin4: PNP normally open / dark-on, IO-Link n.c Pin2: open
1 PNP, short-circuit protected, reverse polarity protected
max. 30 V DC
max. 100 mA, resistive load
DC-12 and DC-13
≤ 1.5 V DC
1000 Hz
0.5 ms
IEC 61131-9
EN 60947-5-2
-40 60 °C (-40 140 °F)
-40 70 °C (-40 158 °F)
11 mm
44.5 mm
21.5 mm
IP67 / IP69 / IP69K
M8 x 1 connector, 4-pin
PC (Polycarbonate)
PMMA
approx. 10 g

Accessories

IO-Link-Master02-USB

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

REF-H85-2

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

REF-H50

Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

REF-VR10

Reflector, rectangular 60 mm x 19 mm, mounting holes

OFR-100/100

Reflective tape 100 mm x 100 mm

RFF-H33

Reflector with screw fixing

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

Curves/Diagrams

