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Model Number

OMT200-R101-EP-IO-V3

Distance sensor with 3-pin, M8 x 1 connector

Features

- Miniature design with versatile mounting options
- Space-saving distance sensors in small standardized design
- Multi Pixel Technology (MPT) exact and precise signal evaluation
- IO-link interface for service and process data

Product information

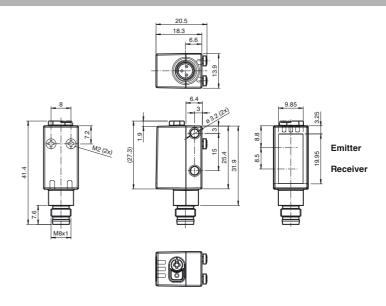
The miniature optical sensors are the first devices of their kind to offer an end-to- end solution in a small single standard design — from thru-beam sensor through to a distance measurement device. As a result of this design, the sensors are able to perform practically all standard automation tasks.

The 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.

fa-info@us.pepperl-fuchs.com

Dimensions



Electrical connection



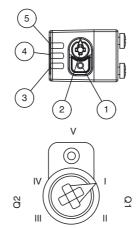
Pinout

Wire colors in accordance with EN 60947-5-2



BN (brow BU (blue BK (blac

Indicators/operating means



1	TEACH-IN button
2	Mode rotary switch
3	Switch output indicator Q2
4	Switch output indicator Q1
5	Operating indicator

I	Switch output 1 / switch point B			
II Switch output 1 / switch point A				
Ш	Switch output 2 / switch point A			
IV	Switch output 2 / B			
٧	Keylock			

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Signal output 1 push-pull (4 in 1) output, short-circuit protected, reverse polarity protected, overvoltage protected Switching voltage max. 30 V DC Switching current max. 100 mA , resistive load Usage category DC-12 and DC-13 Voltage drop U _d ≤ 1.5 V DC Response time 2 ms Conformity Communication interface IEC 61131-9 Product standard EN 60947-5-2 Measurement accuracy Temperature drift 0.05 %/K Warm up time 5 min Repeat accuracy ≤ 1 % Linearity error ± 1 %	Toohnigal data		
Measurement range			
Reference target	•		00 000
Light source			
Light type modulated visible red light LED risk group labelling exempt group Angle deviation max√-1.5° Diameter of the light spot aprox. 12 mm at a distance of 200 mm Angle of divergence 4° Ambient light limit EN 80947-5-2: 30000 Lux Ambient light limit EN 80947-5-2: 30000 Lux Resolution 0.1 mm Functional safety related parameters MTTFa 600 a Mission Tura (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators operating means Operation indicator LED green: constantly on- power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode LED yellow: constantly on- switch output active constantly on- switch output active constantly on- switch output inactive Control elements Teach-in-key Control elements 5-step rotary switch for operating modes selection Electrical specifications Operating voltage U _B 10 30 V DC Ripple max. 10 % No-load supply current I ₀ < 25 mA at 24 V supply voltage Ill interface Interface byre O-Link (via C/Q = pin 4) Device profile Smart Sensor Transfer rate COM 2 (38.4 kBaud) CO-Link Revision 1.1 Min. cycle time 3 ms Process data witch Process data input 3 Byte Process data witch Process data unique 2 Bit SIO mode support yes Device ID Ox110905 (1116421) Compatible master port type A Cutubt Switching type The default setting is: C/Q - Pin-4: NPN normally open, PNP normally closed, IO-Lin Signal output 1 push-pull (4 in 1) output, short-circuit protected, reverse polarity protected, overvoltage protected Mexaurement accuracy 1 ms. 100 ms	-		
LED risk group labelling max. +/- 1.5 * Diameter of the light spot approx. 12 mm at a distance of 200 mm Angle deviation max. +/- 1.5 * Diameter of the light spot approx. 12 mm at a distance of 200 mm Angle of divergence 4 * Angle of divergence Diameter of the light spot approx. 12 mm at a distance of 200 mm Resolution D. 1 mm Functional safety related parameters MTTFa 600 a Mission Time (Tay) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means Operation indicator LED green: constantly on - power on flashing (4+2) - short circuit flashing with short break (1 Hz) - 10-Link mode Eucotion indicator LED green: constantly on - power on flashing (4+2) - short circuit flashing with short break (1 Hz) - 10-Link mode Eucotion indicator LED green: constantly on - switch output active constantly off - switch output inactive Control elements Teach-in key Control elements Teach-in key Control elements S-step rotary switch for operating modes selection Electrical specifications Operating voltage U _B 10 30 V DC Ripple max. 10 % No-load supply current I _Q 25 mA at 24 V supply voltage Interface Interface by Protection class III Interface Interface type OCM 2 (38 4 kBaud) Interface Interface type Device profile Smart Sensor Transfer rate COM 2 (38 4 kBaud) Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Interface Interface type Device iD Oxint power offile Smart Sensor Transfer rate COM 2 (78 4 kBaud) Interface Inter	•		_
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Control elements	Function indicator		constantly on - switch output active
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No-load supply current I_0 < 25 mA at 24 V supply voltage		U _B	
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Material Housing PC (Polycarbonate) Optical face PMMA	• •		
Optical face PMMA	Material		
	Housing		PC (Polycarbonate)
Mass approx. 10 g	Optical face		PMMA
	Mass		approx. 10 g
	Approvals and certificates		

Accessories

V31-GM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

V31-WM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

IO-Link-Master02-USB

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

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



UL approval

E87056, cULus Listed, class 2 power supply, type rating 1

Preferences

Teach-In:

You can use the rotary switch to select the relevant switching threshold A and/or B for teaching in for switch signal Q1 or Q2.

The yellow LEDs indicate the current state of the selected output.

To store a threshold value, press and hold the "TI" button until the yellow and green LEDs flash in phase (approx. 1 s). Teach-In starts when the "TI" button is released.

Successful Teach-In is indicated by alternating flashing (2.5 Hz) of the yellow and green LEDs.

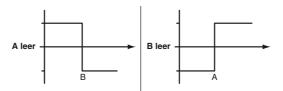
An unsuccessful Teach-In is indicated by rapidly alternating flashing (8 Hz) of the yellow and green LEDs.

After an unsuccessful Teach-In, the sensor continues to operate with the previous valid setting after the relevant visual fault signal is issued.

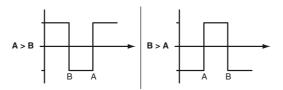
Different switching modes can be defined by teaching in the relevant distance measured values

for the switching thresholds A and B:

Single point mode:



Window mode:



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

Pressing and holding the "TI" button for > 4 s completely deletes the taught-in value. The yellow and green LEDs go out simultaneously to indicate that this procedure has been completed. Successful resetting is indicated by alternating flashing (2.5 Hz) of the yellow and green LEDs.

Resetting to Factory Default Settings

Press the "Tl" button for > 10 s in rotary switch position ,O' to reset to factory default settings. The yellow and green LEDs go out simultaneously to indicate the resetting.

Resetting process starts when the "TI" button is released and is indicated by the yellow LED. After the process the sensor works with factory default settings, immediately.

OMT:

- Factory default settings switch signal Q1:
 - Switch signal active, window mode
- Factory default settings switch signal Q2: Switch signal active, window mode

OQT:

00210

267075-1

2018-12-17

issue:

Date of

2018-12-17 14:07

date:

- Factory default settings switch signal Q1:
 - Switch signal active, BGS mode (background suppression)
- Factory default settings switch signal Q2:
 Switch signal active, BGS mode (background suppression)

Configuration via IO-Link interface

Setting different operating modes via the IO-Link interface

The devices are equipped with an IO-Link interface as standard for diagnostics and parameterization tasks to ensure optimum adjustment of the sensors to the relevant application.

Single point mode operating mode (one switch point):

- "Detection of objects irrespective of type and color in a defined detection range. Objects in the background are suppressed.
- "The switch point corresponds exactly to the set point.



Window mode operating mode (two switch points):

- Detection of objects irrespective of type and color in a defined detection range. Reliable detection when object leaves the detection range.
- Window mode with two switch points.

active detection range

Foreground suppression

Background suppression

Center window mode operating mode (one switch point):

Detection of objects irrespective of type and color in a defined detection range. Sets a defined window around a given object. Objects outside
this window are not detected.

FPPPERL+FUCHS

• Window mode with one switch point.

active detection range Foreground suppression Background suppression

Two point mode operating mode (hysteresis operating mode):

• Detection of objects irrespective of type and color between a defined switch-on and switch-off point.



Inactive operating mode:

• Evaluation of switching signals is deactivated.

The associated IODD device description file can be found in the download area at www.pepperl-fuchs.com.