

Retroreflective sensor OBR15M-R201-2EP-IO-V31



- Medium 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

Retroreflective sensor with polarization filter

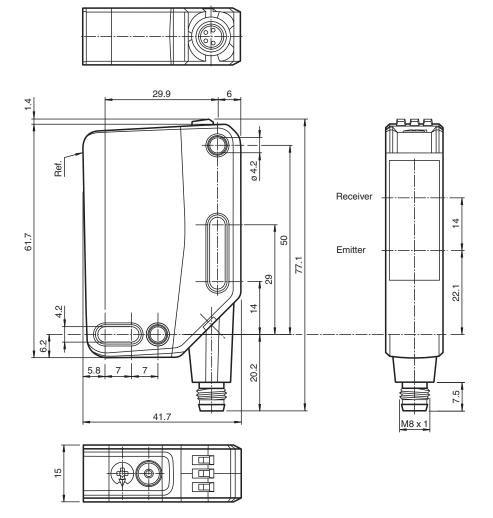
Function

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



Dimensions



Technical Data

General specifications

General specifications	
Effective detection range	0 15 m
Reflector distance	0.02 15 m
Threshold detection range	18.5 m
Reference target	H85-2 reflector
Light source	LED
Light type	modulated visible red light
LED risk group labelling	exempt group
Polarization filter	yes
Diameter of the light spot	approx. 520 mm at a distance of 15 m
Opening angle	2°
Ambient light limit	EN 60947-5-2 : 60000 Lux
Functional safety related parameters	
MTTF _d	724 a
Mission Time (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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

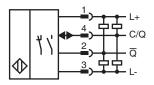
Operating voltageUg1030 VDCRipplemax. 10 %No-load supply currentIg<18 mA at 24 VO perating voltageProtection classIIIInterfaceIIIInterface typeO-Link (via C/O = pin 4)I O-Link revisionIIDevice profileIdentification and diagnosis Smart Sensor type 2.4Device IDIDDevice IDIDDevice IDIDTransfer rateCOM2 (38.4 kBit/s)Min. cycle timeIDProcess data widthIDProcess data widthIDSiO mode supportIDSiO mode supportYesCompatible master port typeAOutputIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSwitching type of IDIDSwitching typeIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSignal outputIDSwitching type outputIDSignal outputI	Technical Data		
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Electrical specifications Un 1030 V DC Operating voltage Un 1030 V DC Bipple max. 10 % No-load supply current lp < 18 mA at 24 V Operating voltage	Control elements		Light-on/dark-on changeover switch
Operating voltageU01030 V DCRipplemax.10 %No-load supply currentU0Protection classIIIInterface typeIO-Link (via C/G = pin 4)Interface typeIO-Link (via C/G = pin 4)ID-Link rovisionIIIDevice profileIIIDevice profileIIIDevice profileIIIIDevice profileIIIIIII (1119737)Transfer rateIIIIIIII (1119737)Transfer rateIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Control elements		sensitivity adjustment
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Degree of protection IP67 / IP69 / IP69K Connection 4-pin, M8 x 1 connector, 90° rotatable Material PC (Polycarbonate) Housing PC (Polycarbonate) Optical face PMMA	Housing height		61.7 mm
Connection 4-pin, M8 x 1 connector, 90° rotatable Material PC (Polycarbonate) Optical face PMMA	Housing depth		41.7 mm
Material PC (Polycarbonate) Optical face PMMA	Degree of protection		IP67 / IP69 / IP69K
Housing PC (Polycarbonate) Optical face PMMA	Connection		4-pin, M8 x 1 connector, 90° rotatable
Optical face PMMA	Material		
	Housing		PC (Polycarbonate)
Mass approx. 44 g	Optical face		PMMA
	Mass		approx. 44 g

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Get

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com

Connection



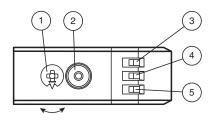
Connection Assignment



Wire colors in accordance with EN 60947-5-2

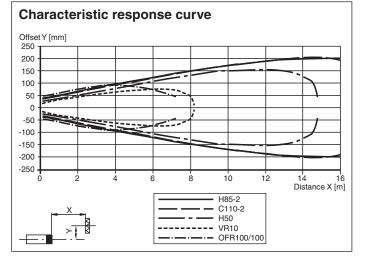
1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)

Assembly



1	Sensitivity adjustment	
2	Light-on / dark-on changeover switch	
3	Operating indicator / dark on	GN
4	Signal indicator	YE
5	Operating indicator / light on	GN

Characteristic Curve

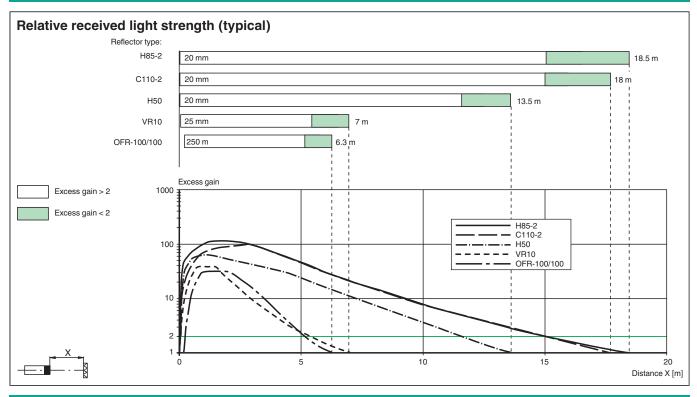


Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Retroreflective sensor

Characteristic Curve



Commissioning

To unlock the adjustment functions turn the sensing range / sensitivity adjuster for more than 180 degrees.

Sensing Range / Sensitivity

Turn sensing range / sensitivity adjuster clockwise to increase sensing range / sensitivity.

Turn sensing range / sensitivity adjuster counter clockwise to decrease sensing range / sensitivity.

If the end of the adjustment range is reached, the signal indicator starts flashing with 8 Hz.

Light-on / Dark-on Configuration

Press the light-on / dark-on changeover switch for more than 1 second (less than 4 seconds). The light-on / dark-on mode changes and the operating indicators are activated accordingly.

If you press the light-on / dark-on changeover switch for more than 4 seconds, the light-on / dark-on mode changes back to the original setting. On release of the light-on / dark-on changeover switch the current state is activated.

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Restore Factory Settings Press the light-on / dark-on changeover switch for more than 10 seconds (less than 30 seconds) until all LEDs turn off. On release of the light-on / dark-on changeover switch the signal indicator turns on. After 5 seconds the sensor resumes operation with factory default settings. After 5 minutes of inactivity the sensing range / sensitivity adjustment is locked. In order to reactivate the sensing range / sensitivity adjustment, turn the sensing range / sensitivity adjuster for more than 180 degrees.

Accessories		
	REF-H85-2	Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes
	REF-C110-2	Reflector, round ø 84 mm, central mounting hole
	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
	OMH-RL31-02	Mounting bracket narrow

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Accessories		
I. T	OMH-RL31-03	Mounting bracket narrow
5.0	OMH-RL31-04	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
1	OMH-RL31-07	Mounting bracket including adjustment
	OMH-RL31-08	Mounting aid for round steel ø 12 mm or sheet 1.5 mm 3 mm
17	OMH-R20x-Quick-Mount	Quick mounting accessory
and the state	ICE2-8IOL-G65L-V1D	EtherNet/IP IO-Link master with 8 inputs/outputs
and the second s	ICE3-8IOL-G65L-V1D	PROFINET IO IO-Link master with 8 inputs/outputs
	ICE2-8IOL-K45S-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	ICE3-8IOL-K45P-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, push-in terminals
	ICE3-8IOL-K45S-RJ45	PROFINET IO IO-Link master with 8 inputs/outputs, DIN rail, screw terminal
	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection
Section of the sectio	ICE1-8IOL-G30L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE1-8IOL-G60L-V1D	Ethernet IO-Link module with 8 inputs/outputs
	ICE2-8IOL-K45P-RJ45	EtherNet/IP IO-Link master with 8 inputs/outputs, DIN rail, push-in connectors
61	V31-GM-2M-PUR	Female cordset single-ended M8 straight A-coded, 4-pin, PUR cable grey
61	V31-WM-2M-PUR	Female cordset single-ended M8 angled A-coded, 4-pin, PUR cable grey

 Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

 Pepperl+Fuchs Group
 USA: +1 330 486 0001
 Get

 www.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com
 fa-info@us.pepperl-fuchs.com

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