







Model Number

OBE25M-R200-SEP-IO-V3

Thru-beam sensor with 3-pin, M8 x 1 connector

Features

- Medium design with versatile mounting options
- IO-link interface for service and process data
- Various frequencies for avoiding mutual interference (cross-talk immunity)
- Extended temperature range -40°C ... 60°C
- · High degree of protection IP69K

Product information

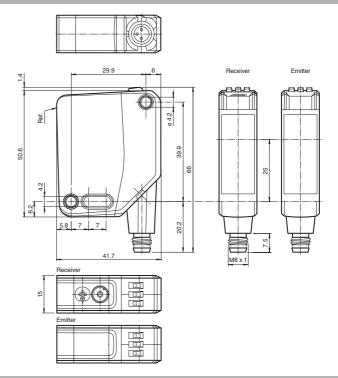
The optical sensors in the series are the first devices to offer an end-to-end solution in a medium-sized standard design—from the thru-beam sensor through to the measuring distance sensor. As a result of this design, the sensors are able to perform practically all standard automation tasks.

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

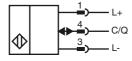
The DuraBeam laser sensors are durable and can be used in the same way as a standard sensor.

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

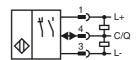
Dimensions



Electrical connection emitter



Electrical connection receiver



Pinout

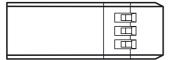
Wire colors in accordance with EN 60947-5-2



1 BN (brown) 3 BU (blue) 4 BK (black)

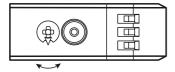
Indicators/operating means

Emitter



Operating indicator

Receiver



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

Accessories

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

EPPERL+FUCHS

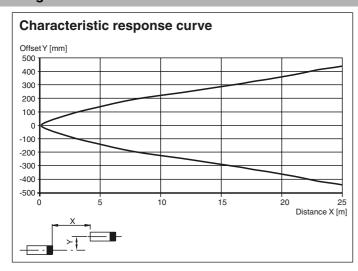
Ripple No-load supply current Io Protection class Interface Interface type Device profile Transfer rate IO-Link Revision Min. cycle time Process data witdh SIO mode support Device ID	J _B	OBE25M-R200-S-IO-V3 OBE25M-R200-EP-IO-V3 0 25 m 33 m LED modulated visible red light exempt group LED red (in receiver lens) illuminated constantly: beam is interrupted, flashes: reaching switching point, off: sufficient stability control approx. 850 mm at a distance of 25 m approx. 2° EN 60947-5-2: 40000 Lux 462 a 20 a 60 % LED green: constantly on - power on flashing (4Hz) - short circuit flashing with short break (1 Hz) - IO-Link mode Yellow LED: Permanently lif - light path clear Permanently off - object detected Flashing (4 Hz) - insufficient operating reserve Receiver: light/dark switch Receiver: sensitivity adjustment 10 30 V DC max. 10 % Emitter: ≤ 15 mA Receiver: ≤ 15 mA at 24 V Operating voltage III IO-Link (via C/Q = pin 4) Identification and diagnosis Smart Sensor: Receiver: type 2.4
Receiver General specifications Effective detection range Threshold detection range Light source Light type LED risk group labelling Alignment aid Diameter of the light spot Angle of divergence Ambient light limit Functional safety related paramete MTTFd Mission Time (TM) Diagnostic Coverage (DC) Indicators/operating means Operation indicator Function indicator Control elements Control elements Electrical specifications Operating voltage Ripple No-load supply current Protection class Interface Interface type Device profile Transfer rate IO-Link Revision Min. cycle time Process data witdh SIO mode support Device ID	J _B	OBE25M-R200-EP-IO-V3 0 25 m 33 m LED modulated visible red light exempt group LED red (in receiver lens) illuminated constantly: beam is interrupted, flashes: reaching switching point, off: sufficient stability control approx. 850 mm at a distance of 25 m approx. 2° EN 60947-5-2: 40000 Lux 462 a 20 a 60 % LED green: 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 Receiver: light/dark switch Receiver: sensitivity adjustment 10 30 V DC max. 10 % Emitter: ≤ 15 mA Receiver: ≤ 15 mA at 24 V Operating voltage III IO-Link (via C/Q = pin 4) Identification and diagnosis Smart Sensor:
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IO-Link Revision Min. cycle time Process data witdh SIO mode support Device ID		Emitter: -
Process data witdh SIO mode support Device ID		COM 2 (38.4 kBaud) 1.1
SIO mode support Device ID		2.3 ms
Device ID		Emitter: Process data input: 0 bit Process data output: 1 bit Receiver: Process data input: 2 bit Process data output: 2 bit
		yes Emitter: 0x111401 (1119233) Receiver: 0x111301 (1118977)
Compatible master port type		A
Input		
Test input		emitter deactivation at +U _B
Output		
Switching type		The switching type of the sensor is adjustable. The default setting is: C/Q - Pin4: NPN normally open / dark-on, PNP normally close light-on, IO-Link
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 Voltage drop	J _d	DC-12 and DC-13 ≤ 1.5 V DC
Voltage drop U Switching frequency f	u	≤ 1.5 V DC 1000 Hz
Response time		0.5 ms
Conformity		0.0 mg
Communication interface		IEC 61131-9
Product standard		120 01101 0
Ambient conditions		EN 60947-5-2
Ambient temperature		EN 60947-5-2
Storage temperature		EN 60947-5-2 -40 60 °C (-40 140 °F)

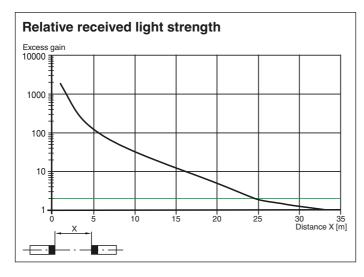


Mechanical	specifications
wechanical	Specifications

Housing height 50.6 mm Housing depth 41.7 mm				
Hausing double				
Housing depth 41.7 mm				
Degree of protection IP67 / IP69 / IP69K				
Connection Connector plug, M8 x 1, 3 pin, rotatable by 90°				
Material				
Housing PC (Polycarbonate)				
Optical face PMMA				
Mass Emitter: approx. 35 g receiver: approx. 35 g				
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 ≤36 V				

Curves/Diagrams





Functions and Operation

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.

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.