Dimensions



CE **OIO**-Link

Model Number

OBT60-R101-2P1-IO-0,3M-V1

Triangulation sensor (BGS) with fixed cable and M12 connector, 4-pin

Features

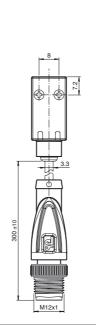
- Miniature design with versatile • mounting options
- Best background suppressor in its ٠ class
- Precision object detection, almost • irrespective of the color
- Extended temperature range -40°C ... 60°C
- High degree of protection IP69K
- IO-link interface for service and process data

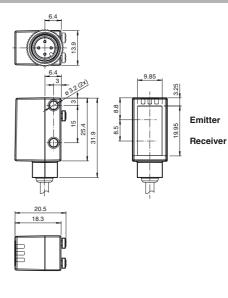
Product information

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.

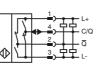
The DuraBeam laser sensors are durable and can be used in the same way as a standard sensor.

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.





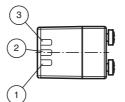
Electrical connection







Indicators/operating means



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

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

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Technical data

2

Technical data				
General specifications				
Detection range		10 60 mm		
Detection range max.		10 80 mm		
Background suppression		starts from 80 mm standard white, 100 mm x 100 mm		
Reference target Light source		LED		
Light type		modulated visible red light		
LED risk group labelling		exempt group		
Black/White difference (6 %/90 %))	approx. 3 mm		
Diameter of the light spot		approx. 4 mm at 60 mm		
Angle of divergence		approx. 5 °		
Ambient light limit Functional safety related parame	otors	EN 60947-5-2 : 40000 Lux		
MTTF _d	SICI 3	600 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		
		LED yellow: constantly on - object detected constantly off - object not detected		
Electrical specifications				
Operating voltage	UB	10 30 V DC max. 10 %		
Ripple No-load supply current	I ₀	<pre>max. 10 % < 25 mA at 24 V supply voltage</pre>		
Protection class	υ			
Interface				
Interface type		IO-Link (via C/Q = BK)		
Device profile		Smart Sensor		
Transfer rate IO-Link Revision		COM 2 (38.4 kBaud) 1.1		
Min. cycle time		2.3 ms		
Process data witdh		Process data input 1 Bit		
SIO mode support		Process data output 2 Bit yes		
Device ID		0x110505 (1115397)		
Compatible master port type		A		
Output Switching type				
Switching type		C/Q - Pin4: NPN normally closed / dark-on, PNP normally open / light-on, IO-Link /Q - Pin2: NPN normally open / light-on, PNP normally closed / dark-on		
Signal output		2 push-pull (4 in 1)outputs, short-circuit protected, reverse polarity protected, overvoltage protected		
Switching voltage Switching current		max. 30 V DC max. 100 mA , resistive load		
Usage category		DC-12 and DC-13		
Voltage drop	U _d	≤ 1.5 V DC		
Switching frequency	f	500 Hz		
Response time		1 ms		
Conformity				
Communication interface Product standard		IEC 61131-9 EN 60947-5-2		
Ambient conditions		EN 00547-5-2		
Ambient temperature		-40 60 °C (-40 140 °F) , fixed cable -25 60 °C (-13 140 °F) , movable cable not appropriate for conveyor chains		
Storage temperature		-40 70 °C (-40 158 °F)		
Mechanical specifications		, , , , , , , , , , , , , , , , , , ,		
Housing width		13.9 mm		
Housing height		31.9 mm		
Housing depth		18.3 mm		
Degree of protection Connection		IP67 / IP69 / IP69K 300 mm fixed cable with M12 x 1, 4-pin connector		
Material				
Housing		PC (Polycarbonate)		
Optical face		РММА		
Mass		approx. 17 g		
Cable length		0.3 m		
Approvals and certificates				
UL approval		E87056 , $cULus$ Listed , class 2 power supply , type rating 1		

Accessories

IO-Link-Master02-USB IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

V1-G-2M-PUR Female cordset, M12, 4-pin, PUR cable

V1-W-2M-PUR

Female cordset, M12, 4-pin, PUR cable

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

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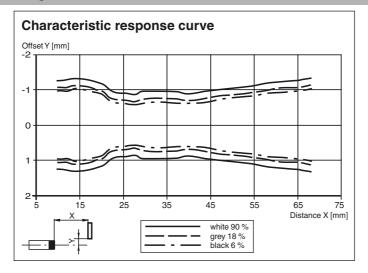
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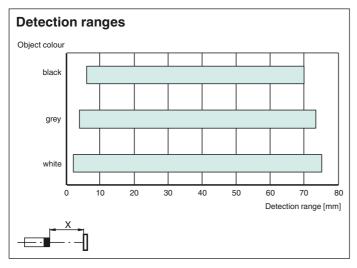
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Curves/Diagrams





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