

Triangulation sensor with background suppression

Function

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.



Triangulation sensor (BGS)

Dimensions





Technical Data

General specifications		
Detection range	5 150 mm	
Detection range min.	5 25 mm	
Detection range max.	5 150 mm	
Adjustment range	25 150 mm	
Reference target	standard white, 100 mm x 100 mm	
Light source	LED	
Light type	modulated infrared light 850 nm	
LED risk group labelling	exempt group	
Black/White difference (6 %/90 %)	< 5 % at 150 mm	
Diameter of the light spot	approx. 12 mm at a distance of 150 mm	
Angle of divergence	approx. 4 °	
Ambient light limit	EN 60947-5-2 : 40000 Lux	
Functional safety related parameters		
MTTF _d	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	

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

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Operating voltage Ua 1030 V DC Ripple max. 10 % No-land supply current b <2.5 m.A. 24 V supply voltage Protection class III Interface type IO-Link (via C/C = pin 4.) Interface type IO-Link (via C/C = pin 4.) IO-Link Revision 1.1 Device profile Oxt10611 (1115665) Owner Table COM 2 (38.4 kBaud) Min. cycle time 2.3 ms Process data input 1 Bit Process data input 2 Bit Process data width Process data input 1 Bit Process data input 1 Bit Process data input 2 Bit SiO mode support yes Output SiO mode support Switching type CO-Prize: NPN normally open / light-on.PVP n	Technical Data		
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Control elements Sensing range adjuster Electrical specifications U Operating voltage U 1030 V DC Ripple naz. 10 % naz. 10 % No load supply current I I Protection class III III Interface type III III Interface type III III Device profile Smart Sensor Device ID Device ID OX (10611 (1116865) III Transfer rate COM2 (38.4 kBaud) III Process data width Yees Zensor Silo mode support Yees Xee Switching type Yees A Output Yees Yees Signal output Yees Yees Signal output Z push-puil (4 in T)outputs, short-circuit protected, reverse polarity protected, overontage protected Switching voltage max. 100 mA, resistive load Jase Cole Signal output Z push-puil (4 in T)outputs, short-circuit protected, reverse polarity protected, overontage protectod Jase Cole			
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Operating voltage Ua 1030 V DC Ripple max. 10 % No-land supply current b <2.5 m.A. 24 V supply voltage	Control elements		Sensing range adjuster
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CiQ - Pin4: NPN normally closed / dark-on, PNP normally open / light-on, ODP not point open / light-on, ODP	Output		
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Switching currentmax. 100 mA, resistive loadUsage categoryDC-12 and DC-13Voltage dropUd≤ 1.5 V DCSwitching frequencyf500 HzResponse time1 msConformityCommunication interfaceIEC 61131-9Product standardCe 80947-5-2Approvals and certificatesUL approvalE87056, cULus Listed, class 2 power supply, type rating 1Ambient conditions	Signal output		
Usage category Image category <thimage category<="" th=""> Image ca</thimage>	Switching voltage		max. 30 V DC
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witching frequency n Response time 1 ms Conformity IEC 61131-9 Product standard IEC 61131-9 Product standard IEC 61131-9 Product standard IEC 61131-9 Approvals and certificates IEC 6100 PC - 20 UL approval IEC 80047-5-2 Approvals and certificates IEC 6100 PC - 40 - 40 - 40 - 40 - 40 - 40 - 40 - 4	Usage category		DC-12 and DC-13
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Mechanical specifications Housing width 13.9 mm Housing height 33.8 mm Housing depth 18.3 mm Degree of protection IP67 / IP69 / IP69K Connection M8 x 1 connector, 4-pin Material PC (Polycarbonate) Pousing PMMA	Ambient temperature		-40 60 °C (-40 140 °F)
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Housing depth 18.3 mm Degree of protection IP67 / IP69 / IP69K Connection M8 x 1 connector, 4-pin Material PC (Polycarbonate) Housing PMMA	Housing width		13.9 mm
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Connection M8 x 1 connector, 4-pin Material PC (Polycarbonate) Optical face PMMA	Housing depth		18.3 mm
Material PC (Polycarbonate) Optical face PMMA	Degree of protection		IP67 / IP69 / IP69K
Housing PC (Polycarbonate) Optical face PMMA	Connection		M8 x 1 connector, 4-pin
Optical face PMMA	Material		
•	Housing		PC (Polycarbonate)
Mass approx 10 g	Optical face		РММА
appion. To y	Mass		approx. 10 g

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

Connection Assignment



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	 Light-on/dark-on changeover switch Sensing range adjuster 			
2				
3	Operating indicator / dark on			
4	Signal indicator			
5	Operating indicator / light on			

Characteristic Curve

Characteristic response curve Offset Y [mm] -5 -4 -3 -2 -1 0 • 1 2 3 4 5 **|** 20 40 60 80 100 140 200 120 160 180 Distance X [mm] white 90 % grey 18 % black 6 % ___ _ _ _ -E

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

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Light spot diameter

Diameter in mm 15 12 9 6 0 -6 -9 -12 -15 160 180 ≥υυ Distance in mm 20 60 ò 40 80 100 120 140 $-\overline{\cdot}-$ ____

Accessories

Release date: 2020-05-07 Date of issue: 2020-05-07 Filename: 267075-100522_eng.pdf

	V31-GM-2M-PUR	Female cordset single-ended, M8, 4-pin, PUR cable
	V31-WM-2M-PUR	Female cordset single-ended, M8, 4-pin, PUR cable
C. C	IO-Link-Master02-USB	IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

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



Configuration



- 1 Light on / dark on changeover switch
- 2 Sensing range / sensitivity
- adjuster
- 3 Operating indicator / dark on
- 4 Signal indicator
- 5 Operating indicator / light on

To unlock the adjustment functions turn the sensing range 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 counterclockwise 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 settings.

After 5 minutes of inactivity the sensing range / sensitivity adjustment is locked. In order to reactivate the sensing range / sensitivity adjuster for more than 180 degrees.

Accessories

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

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

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