O200.GL-GW1J.72NV/E022_F060

Diffuse sensors with background suppression - miniature

Article number: 11224759

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Line beam for complete detection of irregular, perforated objects
- Precise detection thanks to laser light source
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional diagnostic data
- Robust housing with stainless steel spacer sleeves



Picture similar







Technical data	
General data	
Туре	Background suppression
Version	Line beam
Light source	Pulsed red laser diode
Sensing distance Tw	20 120 mm
Sensing range Tb	3 132 mm
Smallest object recognizable typ.	8 mm at 60 mm
Alignment / soiled lens indicator	Flashing output indicator
Power on indication	LED green
Output indicator	LED yellow
Sensing distance adjust- ment	Teach-in and IO-Link
Laser class	1
Distance to focus	60 mm
Wave length	680 nm
Suppression of reciprocal influence	Yes
Beam type	Line
Alignment optical axis	< 1,5°
Electrical data	
Response time / release time	< 0,25 ms (High Speed Mode)
Jitter	< 0,06 ms (High Speed Mode)
Voltage supply range +Vs	10 30 VDC

Electrical data	
Current consumption max. (no load)	20 mA (@ 10 VDC)
Current consumption typ.	10 mA (@ 24 VDC)
Voltage drop Vd	< 2 VDC
Output function	Light / dark operate
Output circuit	Push-pull
Output current	< 50 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Communication interface	
Baud rate	230,4 kBaud (COM 3)
Adjustable parameters	Switching point Switching hysteresis Time filters LED status indicators Output logic Counter Operation mode Deactivate the sensor element Find Me function Teach-in mode
IO-Link port type	Class A
Process data length	32 Bit



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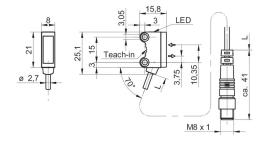
Diffuse sensors with background suppression - miniature

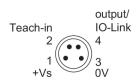
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Technical data	
Communication interface	
Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement
Interface	IO-Link V1.1
Additional data	Excess gain Operating cycles Device temperature
Cycle time	≥ 0,6 ms
Mechanical data	
Width / diameter	8 mm
Height / length	25,1 mm

Mechanical data	
Depth	15,8 mm
Туре	Rectangular
Mechanical mounting	Sleeve smooth (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Flylead connector M8 4 pin, L=200 mm
Cable characteristics	PVC / PVC 4 x 0,08 mm ²
Ambient conditions	
Protection class	IP 67
Operating temperature	-20 +50 °C

Dimension drawing





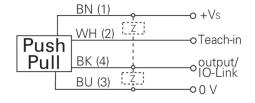
Pin assignment

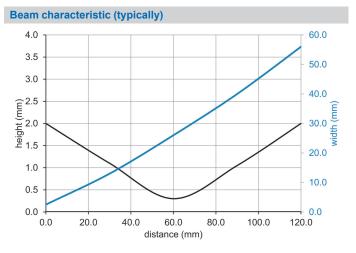
Laser warning

CLASS 1 LASER PRODUCT

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

Connection diagram





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