O200.GL-GW1J.72CV/F160_H006_B005

Diffuse sensors with background suppression - miniature

Article number: 11230967

Overview

- Outstanding reliability and unrivalled immunity against ambient light
- Extra range best-in-class
- Manipulation-proof, simple teach-in via qTeach or line teach
- IO-Link for extended parameterization options and additional dia-
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar







Technical data			
General data		Electrical data	
Type	Background suppression	Output current	50 mA
Sensing distance Tw	20 175 mm	Short circuit protection	Yes
Sensing range Tb	3 192 mm	Reverse polarity protection	Yes
Smallest object recognizable typ.	0.5 mm at 100 mm	Communication interface Interface	IO-Link V1.1
Power on indication	LED green	IO-Link port type	Class A
Alignment / soiled lens indicator	Flashing output indicator	Baud rate	230.4 kBaud (COM 3)
Output indicator	LED yellow	Cycle time	≥ 0.6 ms
Sensing distance adjust-	Teach-in and IO-Link	Process data length	32 Bit
ment		Process data structure	Bit 0 = SSC1 (presence)
Distance to focus	160 mm	Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measur	. ,
Suppression of reciprocal influence	Yes		
Beam type	Point	Adjustable parameters	Switching point
Alignment optical axis	< 1,5°		Switching hysteresis
Light Source			Time filters LED status indicators
Light source	Pulsed red laser diode		Output logic
Laser class	1		Counter
Wave length	680 nm	- !	Operation mode
Electrical data		Deactivate the sensor elements of the sensor	
Response time / release time	≤ 0.25 ms (High Speed Mode)	A dalifica and alasta	Teach-in mode
Jitter	≤ 0.06 ms (High Speed Mode)		Excess gain Operating cycles
Voltage supply range +Vs	10 30 VDC		Device temperature
Current consumption max.	20 mA (@ 10 VDC)	Mechanical data	
(no load)		Width / diameter	8 mm
Current consumption typ.	10 mA (@ 24 VDC)	Height / length	25.1 mm
Voltage drop Vd	<2 VDC	Depth	15.8 mm
Output function	Light / dark operate	Design	Rectangular
Output circuit	Push-pull		



O200.GL-GW1J.72CV/F160 H006 B005

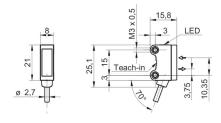
Diffuse sensors with background suppression - miniature

Article number: 11230967

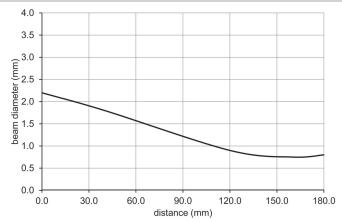
Technical data	
Mechanical data	
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m

Mechanical data	
Cable characteristics	PVC / PVC 4 x 0.08 mm ²
Ambient conditions	
Protection class	IP 67
Operating temperature	-20 +50 °C

Dimension drawing



Beam characteristic (typically)

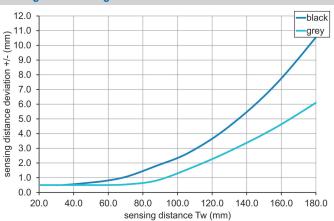


Laser warning

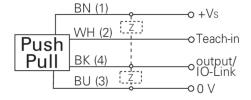
CLASS 1 LASER PRODUCT

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

Sensing distance diagram



Connection diagram



O200.GL-GW1J.72CV/F160_H006_B005

Diffuse sensors with background suppression - miniature

Article number: 11230967

