

## O200.GL-GW2I.72CV/A014\_F040\_H006

Diffuse sensors with background suppression - miniature

Article number: 11231162

#### **Overview**

- Outstanding reliability and unrivalled immunity against ambient light
- Focused laser beam for small objects or gaps
- IO-Link interface independent of the switching output (Dual Channel)
- Extended parameterization options and additional diagnostic data
- Quick mounting by means of M3 threaded bushes made of stainless



Picture similar







Technical data			
General data		Electrical data	
Туре	Background suppression	Output circuit	Push-pull
Version	IO-Link dual channel	Output current	50 mA (< 40 °C), sum of all outputs 20 mA (< 50 °C), sum of all outputs
Sensing distance Tw	20 120 mm	Short circuit protection	Yes
Sensing range Tb	3 132 mm	·	Yes
Smallest object recognizable typ.	0.05 mm at 40 mm	Reverse polarity protection  Communication interface	res
Power on indication	LED green	Interface	IO-Link V1.1
Alignment / soiled lens in-	Flashing output indicator	IO-Link port type	Class A
dicator		Baud rate	38,4 kBaud (COM 2)
Output indicator	LED yellow	Cycle time	≥ 2.7 ms
Sensing distance adjust- ment	IO-Link	Process data length	32 Bit
Distance to focus	40 mm	Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality
Suppression of reciprocal influence	Yes	E	Bit 3 = alarm Bit 5 = SSC4 (counter)
Beam type	Point		Bit 16-31 = 16 Bit measurement
Alignment optical axis	< 1,5°	Adjustable parameters	Switching point
Light Source			Switching hysteresis Time filters
Light source	Pulsed red laser diode		LED status indicators Output logic Output circuit
Laser class	1		
Wave length	680 nm		
Electrical data			Counter Operation mode
Response time / release time	< 0.4 ms (High Speed Mode)		Deactivate the sensor element Find Me function
Jitter	< 0.21 ms (High Speed Mode)		Teach-in mode
Voltage supply range +Vs	10 30 VDC	Additional data	Excess gain
Current consumption max. (no load)	20 mA (@ 10 VDC)		Operating cycles Device temperature
Current consumption typ.	10 mA (@ 24 VDC)	Mechanical data	
Voltage drop Vd	<2 VDC	Width / diameter	8 mm
Output function	Light / dark operate	Height / length	25.1 mm



## O200.GL-GW2I.72CV/A014\_F040\_H006

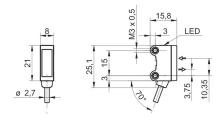
Diffuse sensors with background suppression - miniature

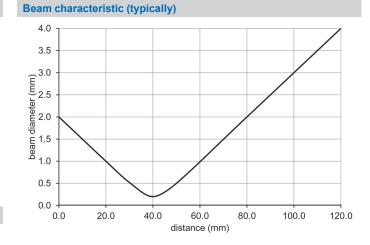
Article number: 11231162

Technical data	
Mechanical data	
Depth	15.8 mm
Design	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA

Mechanical data			
Connection types	Cable 4 pin, 2 m		
Cable characteristics	PVC / PVC 4 x 0.08 mm <sup>2</sup>		
Ambient conditions			
Protection class	IP 67		
Operating temperature	-20 +50 °C		

#### **Dimension drawing**



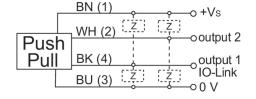


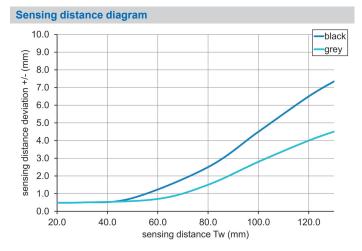
#### Laser warning

# 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**





## O200.GL-GW2I.72CV/A014\_F040\_H006

Diffuse sensors with background suppression - miniature

Article number: 11231162

