# O200.SL.T-GW1J.72CV/F160\_H006

SmartReflect Light barriers - miniature

Article number: 11231176

#### **Overview**

- SmartReflect Safe barrier principle without reflector
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- 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	
Туре	Light barrier
Version	Transparency object detection
Light source	Pulsed red laser diode
Background position Sde	15 180 mm
Scanning range Sa	90% 85% Sde
Minimal signal attenuation	5 %
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	160 mm
Wave length	680 nm
Suppression of reciprocal influence	Yes
Beam type	Point
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 Background tracking
IO-Link port type	Class A
Process data length	32 Bit



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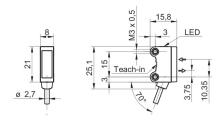
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Technical data			
Communication interface		Mechanical data	
Process data structure	Bit 0 = SSC1 (presence) Bit 2 = quality Bit 3 = alarm Bit 5 = SSC4 (counter) Bit 16-31 = 16 Bit measurement	Height / length	25,1 mm
		Depth	15,8 mm
		Туре	Rectangula
		Mechanical mounting	Threaded sl
Interface	IO-Link V1.1	Housing material	Plastic (ASA
Additional data	Signal attenuation Excess gain Operating cycles Device temperature	Front (optics)	PMMA
		Connection types	Cable 4 pin,
		Cable characteristics	PVC / PVC
		Ambient conditions	
Cycle time	≥ 0,6 ms	Protection class	IP 67
Mechanical data		Operating temperature	-20 +50 °
Width / diameter	8 mm	- F	

Mechanical data	
Height / length	25,1 mm
Depth	15,8 mm
Туре	Rectangular
Mechanical mounting	Threaded sleeves M3 (stainless steel)
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
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**





90.0 distance (mm)

Beam characteristic (typically)

0.0

0.0

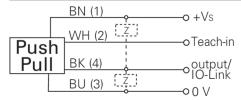
30.0

### 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**



150.0

180.0