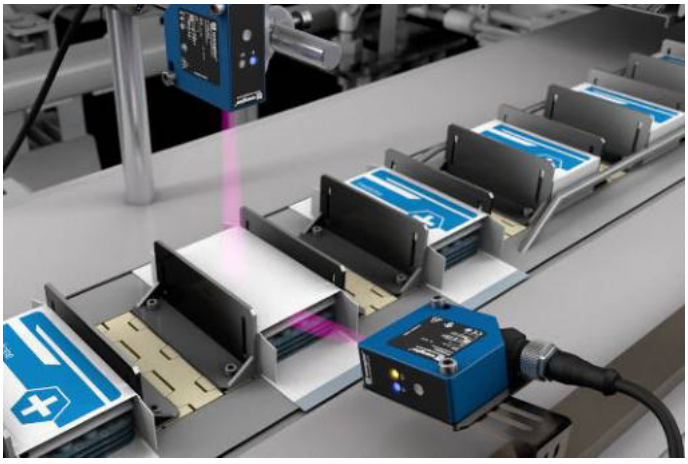
Luminescence Sensor

P1PA001

Part Number

- **Digital intensity outputs via IO-Link 1.1 interface**
- **Recognition of luminescenting marks**
- **Simple configuration via teach-in button or wTeach2 software**

The luminescence sensor detects with a receiver filter all luminescent markings which emit light within a wavelength range from 420-750 nm. With another receiver filter suppresses especially interfering whiteners. The sensors have a very small spot, and use a UV LED with a very long service life.

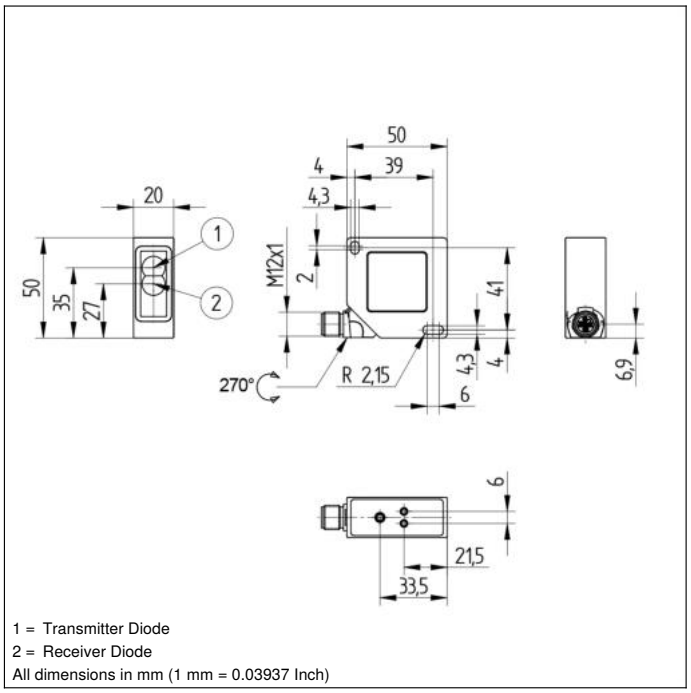


Technical Data

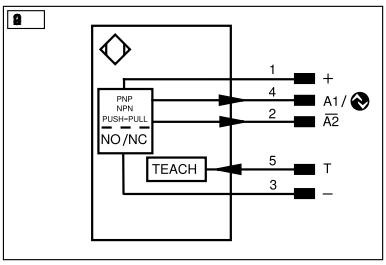
Optical Data	
Working Range	30...90 mm
Working Distance	40 mm
Receiving Range	420...750 nm
Switching Hysteresis	< 10 %
Light Source	UV Light
Wavelength	375 nm
Service Life (T = +25 °C)	100000 h
Risk Group (EN 62471)	2
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	10...30 V DC
Current Consumption (Ub = 24 V)	< 25 mA
Switching Frequency	2500 Hz
Response Time	200 µs
On-/Off-Delay	0...200 ms
Temperature Drift	< 5 %
Temperature Range	-25...60 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	1,5 V
Switching Output/Switching Current	100 mA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Lockable	yes
Teach Mode	ZT, DT
Interface	IO-Link V1.1
Protection Class	III
Mechanical Data	
Setting Method	Teach-In
Housing Material	Plastic
Degree of Protection	IP67
Connection	M12 × 1; 5-pin
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	2783,39 a
Diagnostic Coverage (DC)	0 %
Mission Time TM (EN ISO 13849-1)	11,42 a
PNP NO	●
Connection Diagram No.	249
Control Panel No.	A34
Suitable Connection Equipment No.	2, 35
Suitable Mounting Technology No.	380

Complementary Products

IO-Link Master
PNP-NPN Converter BG2V1P-N-2M
Set Protective Housing ZSP-NN-02
Software



1 = Transmitter Diode
2 = Receiver Diode
All dimensions in mm (1 mm = 0.03937 Inch)



Optic

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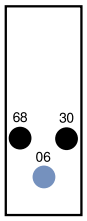

06 = Teach Button
30 = Switching Status/Contamination Warning
68 = supply voltage indicator

Table 1

Working Distance	30 mm	50 mm	90 mm
Light Spot Diameter	3 mm	4 mm	7 mm