

Laser Distance Sensor

Time of Flight

P2PY106

LASER

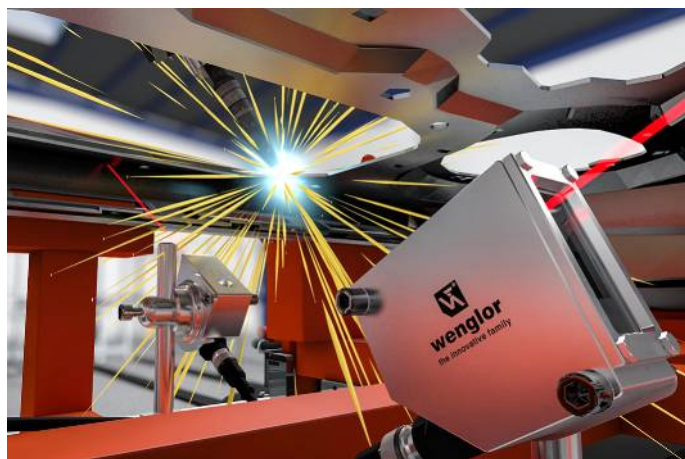
Part Number

der wintec.



- 2 mutually independent switching outputs
- Interchangeable optical lens
- Robust stainless steel housing with IP69K
- Wide working range and precise detection thanks to DS technology

The sensors function in accordance with the time-of-flight principle with laser class 1. The wintec with Dynamic Sensitivity technology (DS) enables previously unattainable reception sensitivity even with very weak signals. As a result, the sensors have a large working range of up to 10 m and can reliably detect dark or shiny objects even at extreme angles. The wintec also works very well in adverse ambient conditions, e.g., ambient light or dirt. The robust 316L stainless steel housing (1.4404) is resistant to oils and coolants. The optical lens is easy to replace after wear, caused, for example, by welding spatter or sparks.



Technical Data

Optical Data

Working Range	0...10000 mm
Setting Range	50...10000 mm
Reproducibility maximum	3 mm*
Linearity Deviation	10 mm*
Switching Hysteresis	< 15 mm
Light Source	Laser (red)
Wavelength	660 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Beam Divergence	< 2 mrad
Max. Ambient Light	100000 Lux
Light Spot Diameter	see Table 1

Electrical Data

Supply Voltage	18...30 V DC
Current Consumption (U _b = 24 V)	< 35 mA
Switching Frequency	50 Hz*
Switching Frequency (max.)	250 Hz*
Response Time	15 ms *
Response Time (min.)	4,7 ms *
Temperature Drift	< 0,4 mm/K
Temperature Range	-40...55 °C
Number of Switching Outputs	2
Switching Output Voltage Drop	< 2,5 V
Switching Output/Switching Current	100 mA
Reverse Polarity and Overload Protection	yes
Short Circuit Protection	yes
Interface	IO-Link V1.1
Baud Rate	COM3
Protection Class	III
FDA Accession Number	2110079-001

Mechanical Data

Setting Method	Teach-In
Housing Material	Stainless steel 316L
Optic Cover	PMMA, interchangeable
Degree of Protection	IP68/IP69K
Connection	M12 × 1; 4/5-pin

Safety-relevant Data

MTTFd (EN ISO 13849-1)	543,71 a
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NPN NO	●
IO-Link	●
Acceleration sensor	●
Connection Diagram No.	243
Control Panel No.	II6
Suitable Connection Equipment No.	2 35
Suitable Mounting Technology No.	380

* Depends on mode, see table 2

Complementary Products

IO-Link Master
Software

