Laser Distance Sensor

Time of Flight

OY2TA104P0150P

LASER

IndustrialEthernet der wintec.

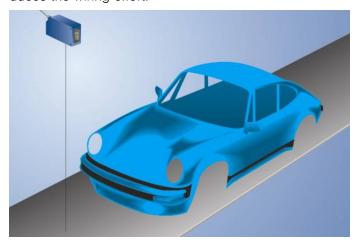
Part Number



- Industrial Ethernet
- Reliable in case of glossy objects with wintec
- Secure detection of black objects also in extremely inclined positions with wintec
- Web server and graphic display for simple operation

These sensors have scratch-resistant optics and the emitted light can be switched off. They use the transit time measurement principle to measure the distance between the sensor and the object.

Sensors with Industrial Ethernet make the analog and digital input cards at control units unnecessary, as all service and measurement data is read, analyzed and processed in the control unit in real time, without the need for conversion. Power over Ethernet connects data transfer and power supply in one cable and thus reduces the wiring effort.



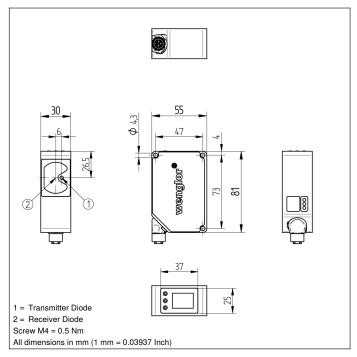
Technical Data

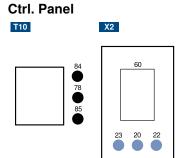
Optical Data			
Working Range	0,110,1 m		
Reproducibility maximum	7 mm		
Linearity Deviation	20 mm		
Light Source	Laser (red)		
Wavelength	660 nm		
Service Life (T = +25 °C)	100000 h		
Laser Class (EN 60825-1)	1		
Beam Divergence	< 2 mrad		
Max. Ambient Light	5000 Lux		
Light Spot Diameter	see Table 1		
Electrical Data			
Port Type	100BASE-TX		
PoE Class	1		
Response Time	10 ms		
Temperature Range	-2550 °C		
Reverse Polarity Protection	yes		
Interface	PROFINET		
Protection Class	III		
Mechanical Data			
Setting Method	Menu (OLED)		
Housing Material	Plastic		
Degree of Protection	IP68		
Connection	M12 × 1; 8-pin, X-cod.		
Web server	yes		
PROFINET-I/O, CC-B	•		
Connection Diagram No.	001		
Control Panel No.	X2 T10		
Suitable Connection Equipment No.	50		
Suitable Mounting Technology No.	340		

Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

Midspan Adapter Z0029
Set Protective Housing ZST-NN-02
Switch/Junction with PoE ZAC50xN0x





20 = Enter key

22 = Up key

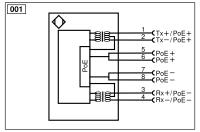
23 = Down key

60 = display

78 = Module status

84 = Communication Status

85 = Link/Act LED



Legend					
+	Supply Voltage +	nc	Not connected	ENBRS422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENB	Encoder B
A	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W-	Ground for the Trigger Input	AMAX	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
⊽	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In
E	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
T	Teach Input	Amv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	M	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	Reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Colors according to DIN IEC 60757	
TxD	Interface Send Path	SY-	Ground for the Synchronization	BK	Black
RDY	Ready	E+	Receiver-Line	BN	Brown
GND	Ground	S+	Emitter-Line	RD	Red
CL	Clock	±	Grounding	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
0	IO-Link	Rx+/-	Ethernet Receive Path	GN	Green
PoE	ower over Ethernet	Tx+/-	Ethernet Send Path	BU	Blue
IN	Safety Input	Bus	Interfaces-Bus A(+)/B(-)	VT	Violet
OSSD	Safety Output	La	Emitted Light disengageable	GY	Grey
Signal	Signal Output	Mag	Magnet activation	WH	White
BI_D+/-	Ethernet Gigabit bidirect. data line (A-D)	RES	Input confirmation	PK	Pink
ENo RS422	Encoder 0-pulse 0/0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)		•

Table 1

Working Distance	0 m	10 m
Light Spot Diameter	5 mm	< 20 mm









