High-Performance Distance Sensor

OY2TA104P0150E

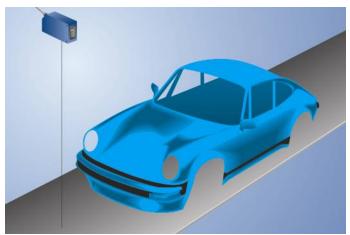
Part Number



- 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.



LASER 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	EtherNet/IP™	
Protection Class	111	
Mechanical Data		
Setting Method	Menu (OLED)	
Housing Material	Material Plastic	
Degree of Protection	IP68	
Connection	M12 × 1; 8-pin, X-cod.	
Web server	yes	
EtherNet/IP™		
Connection Diagram No.	001	
Control Panel No.	X2 T11	
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.

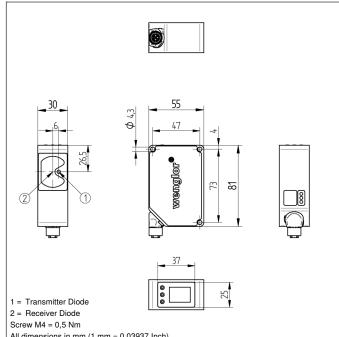
Complementary Products

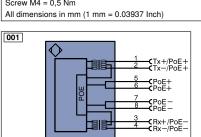
Midspan Adapter Z0029 Set Protective Housing ZST-NN-02 Switch/Junction with PoE ZAC50xN0x

Photoelectronic Sensors

IndustrialEthernet WinTec







Leger	nd	PT	Platinum measuring resistor	ENAR5622	Encoder A/Ā (TTL)
+	Supply Voltage +	nc	not connected	ENBR5422	Encoder B/B (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ū	Test Input inverted	ENв	Encoder B
А	Switching Output (NO)	W	Trigger Input	Amin	Digital output MIN
Ā	Switching Output (NC)	W -	Ground for the Trigger Input	Амах	Digital output MAX
V	Contamination/Error Output (NO)	0	Analog Output	Аок	Digital output OK
V	Contamination/Error Output (NC)	0-	Ground for the Analog Output	SY In	Synchronization In
Е	Input (analog or digital)	BZ	Block Discharge	SY OUT	Synchronization OUT
Т	Teach Input	Awv	Valve Output	OLT	Brightness output
Z	Time Delay (activation)	а	Valve Control Output +	м	Maintenance
S	Shielding	b	Valve Control Output 0 V	rsv	reserved
RxD	Interface Receive Path	SY	Synchronization	Wire Co	lors according to DIN IEC 757
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		Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
۲	IO-Link	Rx+/-	 Ethernet Receive Path 	GN	Green
PoE	Power 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
EN0 RS42	2 Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

Ctrl. Panel

20 = Enter Button

48 = Network Status 60 = Display 78 = Module status 85 = Link/Act LED

22 = UP Button 23 = Down Button

78 48 85 X2

60

T11

Table 1

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



Specifications are subject to change without notice