## **High-Performance Distance Sensor**

# OY2TA104P0150C

## **LASER**

#### Industrial Ethernet Win Tec

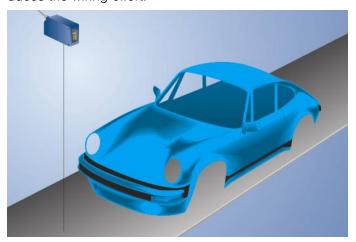
Part Number



- 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**

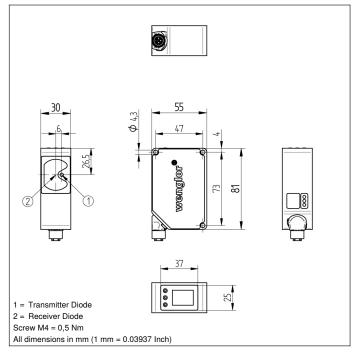
roommour Butu						
Optical Data						
Working Range	0,110,1 m					
Reproducibility maximum	7 mm					
Linearity Deviation	20 mm					
Light Source	Laser (red)					
Wavelength	660 nm					
Service Life (T = +25 °C)	100000 h					
Laser Class (EN 60825-1)	1					
Beam Divergence	< 2 mrad					
Max. Ambient 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	EtherCAT					
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					
EoE (Ethernet over EtherCAT)	yes					
EtherCAT	•					
Connection Diagram No.	001					
Control Panel No.	X2 T14					
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.

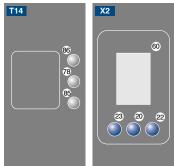
#### **Complementary Products**

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

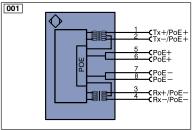




### Ctrl. Panel



- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 60 = Display
- 78 = Module status
- 85 = Link/Act LED
- 86 = STATUS



Leger	nd	PT	Platinum measuring resistor	ENARS422	Encoder A/Ā (TTL)
+	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
Α	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
E	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	olors 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	OG	Orange
E/A	Output/Input programmable	SnR	Switching Distance Reduction	YE	Yellow
•	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		Pink
ENors4	Encoder 0-pulse 0-0 (TTL)	EDM	Contactor Monitoring	GNYE	Green/Yellow

Table 1

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











