

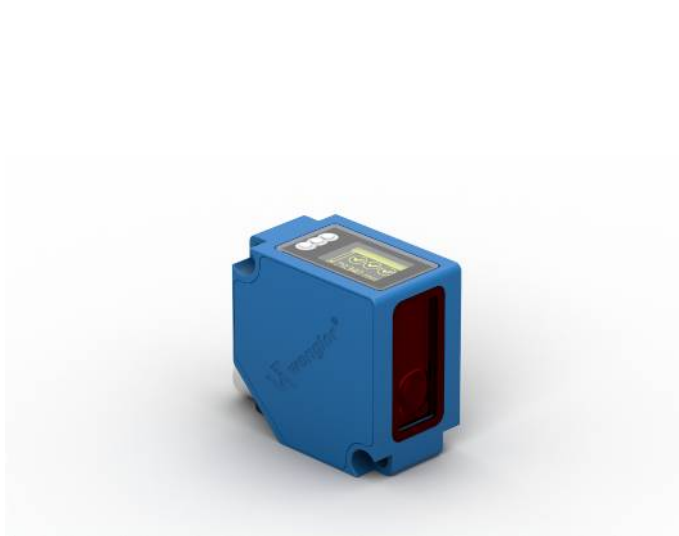
Laser Distance Sensor Triangulation

OCP662P0150C

Part Number

LASER

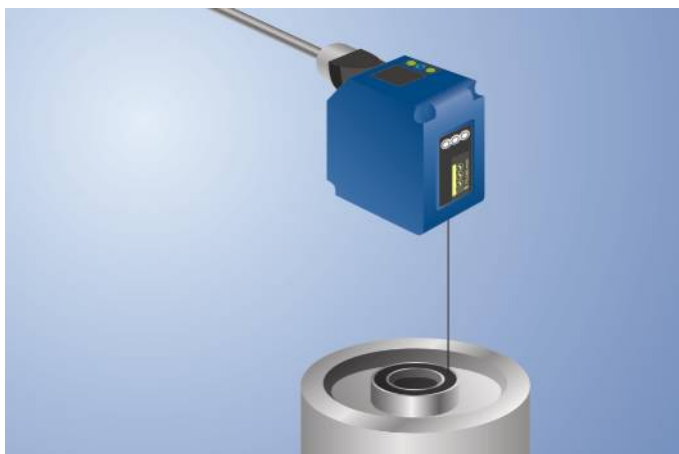
IndustrialEthernet



- CMOS line array
- Industrial Ethernet
- Measured value independent of material, color and brightness
- Web server and graphic display for simple operation

These sensors work with a high-resolution CMOS line and DSP technology and determine distance using angular measurement.

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.



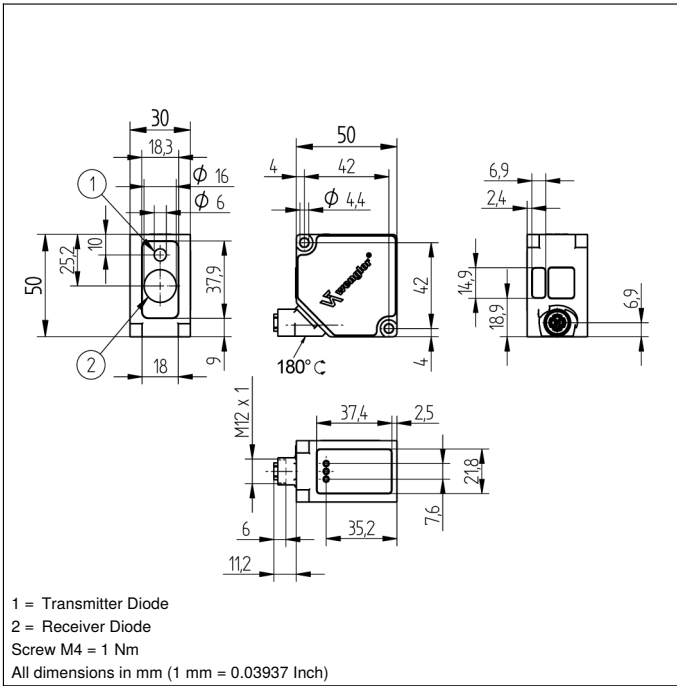
Technical Data

Optical Data	
Working Range	60...660 mm
Measuring Range	600 mm
Reproducibility maximum	70...1000 μm
Linearity Deviation	100...1000 μm
Light Source	Laser (red)
Wavelength	655 nm
Service Life (T = +25 °C)	100000 h
Laser Class (EN 60825-1)	1
Max. Ambient Light	10000 Lux
Light Spot Diameter	3,6 × 0,9 mm
Electrical Data	
Port Type	100BASE-TX
PoE Class	1
Output rate	330 /s
Temperature Drift	< 50 $\mu\text{m}/\text{K}$
Temperature Range	-25...50 °C
Reverse Polarity Protection	yes
Interface	EtherCAT
Protection Class	III
Mechanical Data	
Setting Method	Menu (OLED)
Housing Material	Metal
Degree of Protection	IP68
Connection	M12 × 1; 8-pin, X-cod.
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	350,69 a
Web server	yes
EoE (Ethernet over EtherCAT)	yes
EtherCAT	●
Connection Diagram No.	001
Control Panel No.	X2 T15
Suitable Connection Equipment No.	50
Suitable Mounting Technology No.	380

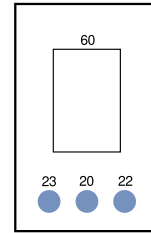
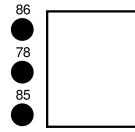
Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

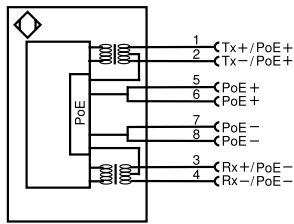
Midspan Adapter Z0029
Protective Housing ZNNS001, ZNNS002
Switch/Junction with PoE ZAC50xN0x



Ctrl. Panel

T15
X2


- 20 = Enter key
- 22 = Up key
- 23 = Down key
- 60 = display
- 78 = Module status
- 85 = Link/Act LED
- 86 = STATUS

001


Legend

+	Supply Voltage +	nc	Not connected	EN _{BRS422}	Encoder B/B̄ (TTL)
-	Supply Voltage 0 V	U	Test Input	ENA	Encoder A
~	Supply Voltage (AC Voltage)	Ü	Test Input inverted	EN _B	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)	O	Analog Output	Aok	Digital output OK
ȳ	Contamination/Error Output (NC)	O-	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)	a	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
⊕	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
EN _o RS422	Encoder 0-pulse 0/0̄ (TTL)	EDM	Contact Monitoring	GNYE	Green/Yellow
PT	Platinum measuring resistor	EN _{ARS422}	Encoder A/Ā (TTL)		

