High-Performance Distance Sensor

OCP801P0150P

LASER

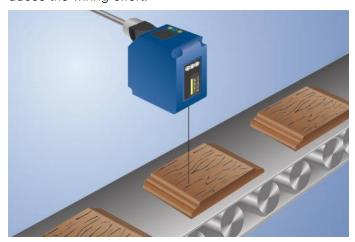
IndustrialEthernet



- 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

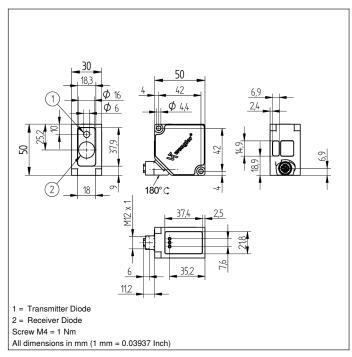
Optical Data				
Working Range	3080 mm			
Measuring Range	50 mm			
Reproducibility maximum	1550 <i>μ</i> m			
Linearity Deviation	50100 μm			
Light Source	Laser (red)			
Wavelength	655 nm			
Service Life (T = +25 °C)	100000 h			
Laser Class (EN 60825-1)	1			
Max. Ambient Light	10000 Lux			
Light Spot Diameter	3,6 × 0,9 mm			
Electrical Data				
Port Type	100BASE-TX			
PoE Class	1			
Output rate	330 /s			
Temperature Drift	< 5 µm/K			
Temperature Range	-2550 °C			
Reverse Polarity Protection	yes			
Interface	PROFINET			
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			
PROFINET IO, CC-B	•			
Connection Diagram No.	001			
Control Panel No.	X2 T12			
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.

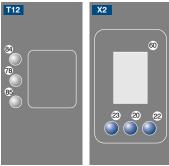
Complementary Products

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

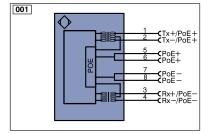




Ctrl. Panel



- 20 = Enter Button
- 22 = UP Button
- 23 = Down Button
- 60 = Display
- 78 = Module status
- 84 = Communication Status
- 85 = Link/Act LED



_egen	a		PT	Platinum measuring resistor	ENARS42	₂ Encoder A/Ā (TTL)
+	Supply Voltage +		nc	not connected	ENBRS42	₂ Encoder B/B̄ (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 C	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
②	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	a line (A-D)	RES	Input confirmation	PK	Pink
ENors422	Encoder 0-pulse 0-0 (TTL)		EDM	Contactor Monitoring	GNYE	Green/Yellow









