

High-Performance Distance Sensor

OCP352P0150E

LASER

IndustrialEthernet

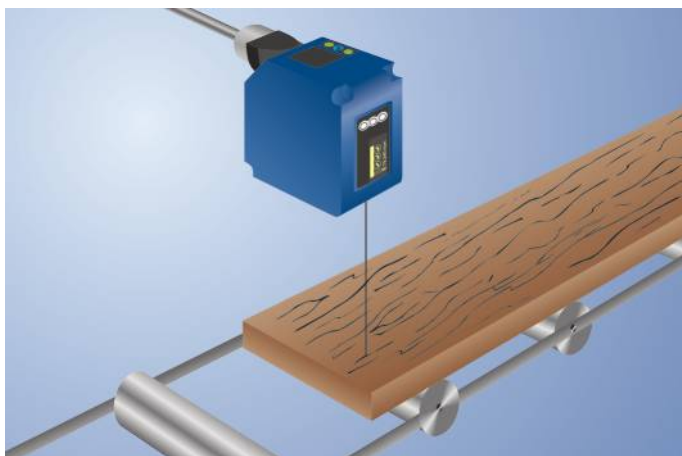
Part Number



- 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.



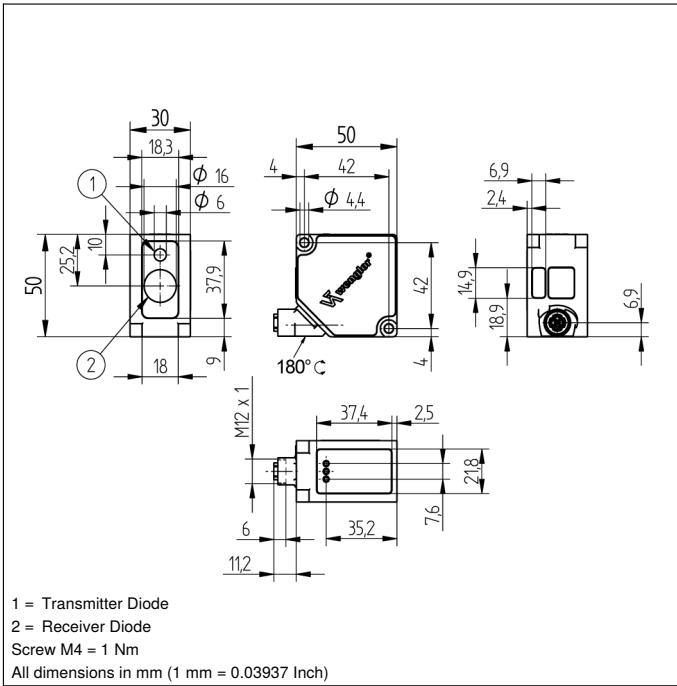
Technical Data

| Optical Data | |
|-----------------------------------|------------------------|
| Working Range | 50...350 mm |
| Measuring Range | 300 mm |
| Reproducibility maximum | 20...150 µm |
| Linearity Deviation | 100...500 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 | < 20 µm/K |
| Temperature Range | -25...50 °C |
| Reverse Polarity Protection | yes |
| Interface | EtherNet/IP™ |
| 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 |
| EtherNet/IP™ | ● |
| Connection Diagram No. | 001 |
| Control Panel No. | X2 T13 |
| Suitable Connection Equipment No. | 50 |
| Suitable Mounting Technology No. | 380 |

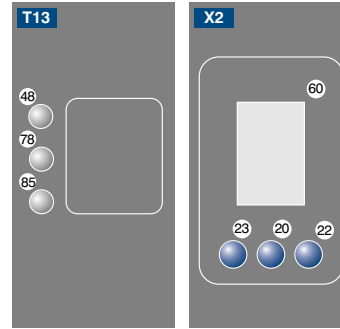
Display brightness may decrease with age. This does not result in any impairment of the sensor function.

Complementary Products

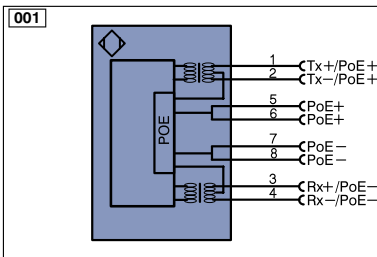
| |
|-------------------------------------|
| Midspan Adapter Z0029 |
| Protective Housing ZNNS001, ZNNS002 |
| Switch/Junction with PoE ZAC50xN0x |



Ctrl. Panel



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



Legend

| | | | | | |
|-----------------------|--|-----------------|--------------------------------|--------------------------------------|----------------------------|
| + | Supply Voltage + | PT | Platinum measuring resistor | EN ^{A/RS422} | Encoder A/ \bar{A} (TTL) |
| - | Supply Voltage 0 V | nc | not connected | EN ^{B/RS422} | Encoder B/ \bar{B} (TTL) |
| ~ | Supply Voltage (AC Voltage) | U | Test Input | EN ^A | Encoder A |
| A | Switching Output (NO) | \bar{U} | Test Input inverted | EN ^B | Encoder B |
| \bar{A} | Switching Output (NC) | W | Trigger Input | A _{MIN} | Digital output MIN |
| V | Contamination/Error Output (NO) | W- | Ground for the Trigger Input | A _{MAX} | Digital output MAX |
| \bar{V} | Contamination/Error Output (NC) | O | Analog Output | A _{OK} | Digital output OK |
| E | Input (analog or digital) | O- | Ground for the Analog Output | SY _{in} | Synchronization In |
| T | Teach Input | BZ | Block Discharge | SY _{OUT} | Synchronization OUT |
| Z | Time Delay (activation) | A _{WV} | Valve Output | OL _T | Brightness output |
| S | Shielding | a | Valve Control Output + | M | Maintenance |
| RxD | Interface Receive Path | b | Valve Control Output 0 V | rsv | reserved |
| TxD | Interface Send Path | SY | Synchronization | Wire Colors according to DIN IEC 757 | |
| RDY | Ready | SY- | Ground for the Synchronization | BK | Black |
| GND | Ground | E+ | Receiver-Line | BN | Brown |
| CL | Clock | S+ | Emitter-Line | RD | Red |
| E/A | Output/Input programmable | ⊕ | Grounding | OG | Orange |
| | IO-Link | S _{nR} | Switching Distance Reduction | YE | Yellow |
| PoE | Power over Ethernet | Rx+/- | Ethernet Receive Path | GN | Green |
| IN | Safety Input | Tx+/- | Ethernet Send Path | BU | Blue |
| OSSD | Safety Output | Bus | Interfaces-Bus A(+)/B(-) | VT | Violet |
| Signal | Signal Output | L _a | Emitted Light disengageable | GY | Grey |
| Bl_D+/- | Ethernet Gigabit bidirect. data line (A-D) | Mag | Magnet activation | WH | White |
| EN ^{0/RS422} | Encoder 0-pulse 0-0 (TTL) | RES | Input confirmation | PK | Pink |
| | | EDM | Contacting Monitoring | GNYE | Green/Yellow |

