Through-Beam Sensor

ZW6003

LASER

Part Number



Adjustable focus

• Range: 60 m

Technical Data

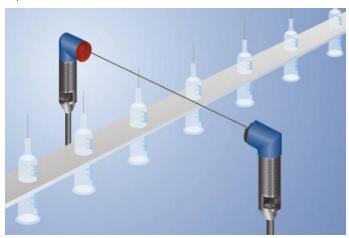
| Optical Data | |
|-----------------------------------|-----------------|
| Range | 60000 mm |
| Light Source | Laser (red) |
| Wavelength | 655 nm |
| Service Life (T = +25 °C) | 100000 h |
| Laser Class (EN 60825-1) | 2 |
| Beam Divergence | 0,5 mrad |
| Electrical Data | |
| Sensor Type | Emitter |
| Supply Voltage | 1030 V DC |
| Current Consumption (Ub = 24 V) | < 15 mA |
| Temperature Drift | < 10 % |
| Temperature Range | -2560 °C |
| Reverse Polarity Protection | yes |
| Protection Class | III |
| FDA Accession Number | 0820361-000 |
| Mechanical Data | |
| Housing Material | Stainless Steel |
| Full Encapsulation | yes |
| Degree of Protection | IP67 |
| Connection | M12 × 1; 4-pin |
| Connection Diagram No. | 1018 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 150 |

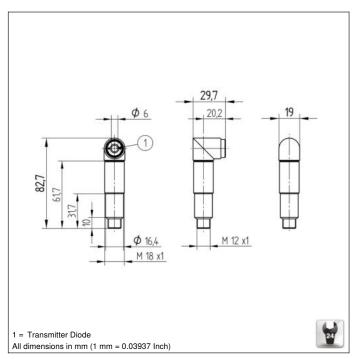
Suitable Receiver

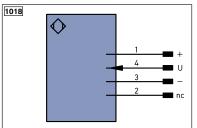
ZW600NCT3

ZW600PCT3

These through-beam sensors are best suited for use in industrial environments. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments. The sensors can be checked for correct functioning via the test input.



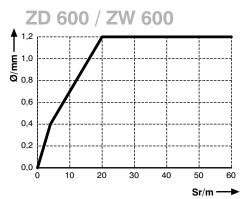




| _egen | id | | PT | Platinum measuring resistor | ENARS422 | Encoder A/Ā (TTL) | |
|---------|---------------------------------|------------|-------|--------------------------------|----------|--------------------------------------|--|
| + | Supply Voltage + | | nc | not connected | ENBR5422 | Encoder B/B (TTL) | |
| - | Supply Voltage 0 V | | U | Test Input | ENA | Encoder A | |
| ~ | Supply Voltage (AC Voltage) | | Ū | Test Input inverted | 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 | | (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 | | AMV | 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 | Wire Colors 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 | PK | Pink | |
| ENors42 | Encoder 0-pulse 0-0 (TTL) | | EDM | Contactor Monitoring | GNYE | Green/Yellow | |

Smallest Recognizable Part

Based on the Distance between Emitter and Receiver





Ø = Diameter, Smallest Recognizable Part









