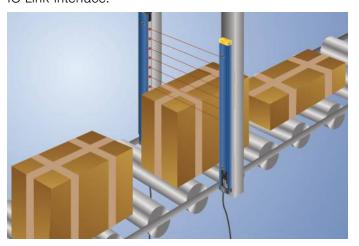
Light Curtain for Measuring Tasks

OEEB302U0135



- 360° visible switching status display
- Graphical display for easy operation
- Integrated evaluation unit
- Object detection and measurement

As these light curtains for measurement tasks are equipped with an integrated evaluation unit, external connection units are not needed. Objects are both recognized (via the digital output) and measured (via the analog output). The light curtains can be set up easily using the menu-controlled graphic display. Convenient parametrization and quick diagnosis is possible via the IO-Link interface.



Technical Data

| Tooliilloai Bata | |
|---------------------------------------|------------------|
| Optical Data | |
| Range | 3000 mm |
| Measurement Field Height (MFH) | 300 mm |
| Beam Distance | 30 mm |
| Light Source | Infrared Light |
| Service Life (T = +25 °C) | 100000 h |
| Max. Ambient Light | 10000 Lux |
| Opening Angle | 10 ° |
| Electrical Data | |
| Sensor Type | Receiver |
| Supply Voltage | 1830 V DC |
| Current Consumption (Ub = 24 V) | < 40 mA |
| Switching Frequency | 41 Hz |
| Response Time | 12 ms |
| On-/Off-Delay | 010 s |
| Temperature Drift | < 10 % |
| Temperature Range | -2560 °C |
| Number of Switching Outputs | 2 |
| Switching Output Voltage Drop | < 2,5 V |
| Switching Output/Switching Current | 100 mA |
| Residual Current Switching Output | < 50 μA |
| Analog Output | 010 V/420 mA |
| Short Circuit and Overload Protection | yes |
| Reverse Polarity Protection | yes |
| Lockable | yes |
| Interface | IO-Link V1.0 |
| Protection Class | III |
| Mechanical Data | |
| Setting Method | Menu (OLED) |
| Housing Material | Aluminum |
| Degree of Protection | IP65 |
| Connection | M12 × 1; 4/5-pin |
| Switchable to NC/NO | • |
| Configurable as PNP/Push-Pull | Ŏ |
| Error Output | Ŏ |
| IO-Link | Ŏ |
| Connection Diagram No. | 188 |
| Control Panel No. | EB3 |
| Suitable Connection Equipment No. | 2 35 |

Suitable Emitter

OSEB302Z0103

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

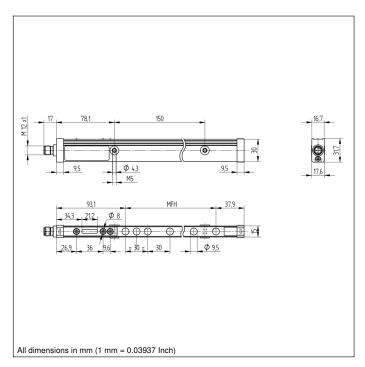
Complementary Products

Analog Evaluation Unit AW02

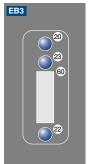
IO-Link Master

Software



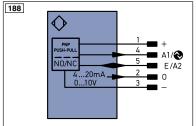


Ctrl. Panel



20 = Enter Button 22 = UP Button 23 = Down Button

60 = Display



| Legen | id | | PT | Platinum measuring resistor | ENARSA | ₂ Encoder A/Ā (TTL) |
|----------|---------------------------------|------------|----------|--------------------------------|--------------------|--------------------------------|
| + | Supply Voltage + | | nc | not connected | EN _{BRS4} | 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 |
| ٧ | 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 OU | 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 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 |
| • | 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 |
| ENors422 | Encoder 0-pulse 0-0 (TTL) | | EDM | Contactor Monitoring | GNYE | Green/Yellow |









