

# Light Curtain for Measuring Tasks

## OSEI202Z0103

Part Number



### ● Test input

### Technical Data

#### Optical Data

|                                |                |
|--------------------------------|----------------|
| Range                          | 2000 mm        |
| Measurement Field Height (MFH) | 200 mm         |
| Beam Distance                  | 2 mm           |
| Light Source                   | Infrared Light |
| Service Life (T = +25 °C)      | 100000 h       |

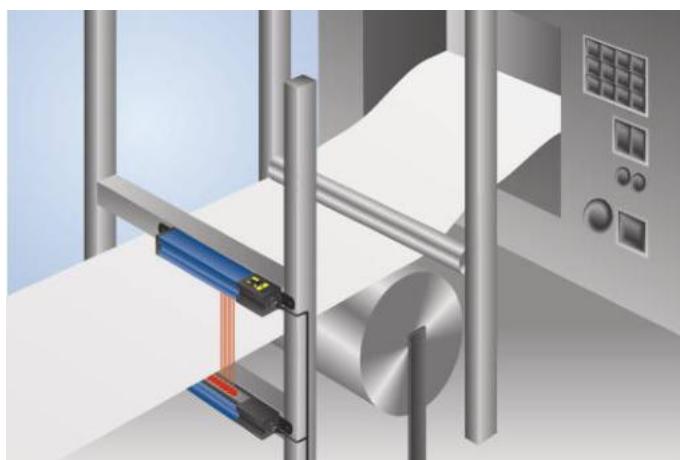
#### Electrical Data

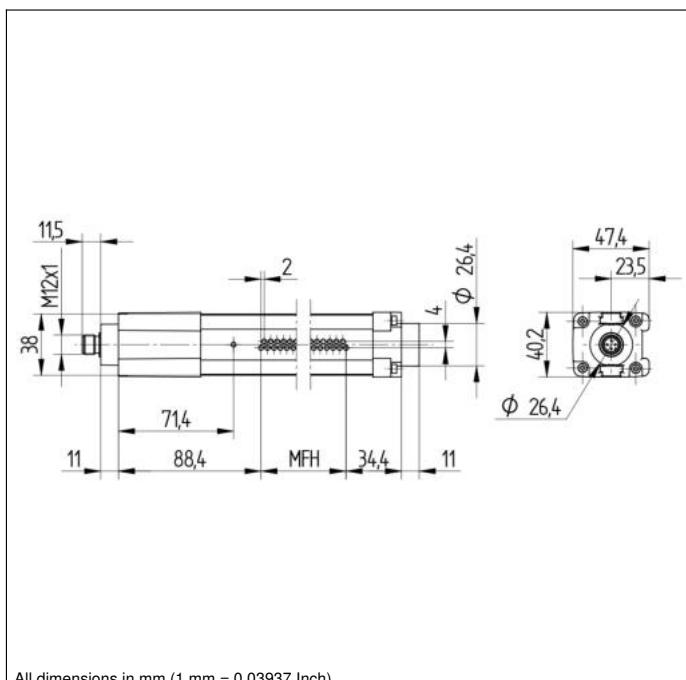
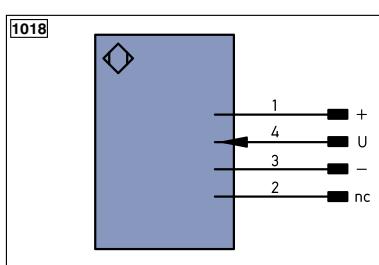
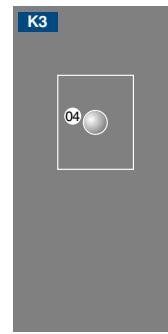
|                                   |                |
|-----------------------------------|----------------|
| Sensor Type                       | Emitter        |
| Supply Voltage                    | 18...30 V DC   |
| Current Consumption (Ub = 24 V)   | < 60 mA        |
| Temperature Drift                 | < 10 %         |
| Temperature Range                 | -25...60 °C    |
| Reverse Polarity Protection       | yes            |
| Test input                        | yes            |
| Protection Class                  | III            |
| <b>Mechanical Data</b>            |                |
| Housing Material                  | Aluminum       |
| Degree of Protection              | IP65           |
| Connection                        | M12 x 1; 4-pin |
| Connection Diagram No.            | <b>1018</b>    |
| Control Panel No.                 | <b>K3</b>      |
| Suitable Connection Equipment No. | <b>2</b>       |
| Suitable Mounting Technology No.  | <b>700</b>     |

#### Suitable Receiver

OEEI202U0135

As these light curtains for measurement task 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. The adequate mounting angle BEF-SET-33 is included in the delivery.




**Ctrl. Panel**

**Legend**

|                                      |  |
|--------------------------------------|--|
| PT                                   | Platinum measuring resistor                |
| nc                                   | not connected                              |
| U                                    | Test Input                                 |
| Ü                                    | Test Input inverted                        |
| W                                    | Trigger Input                              |
| W-                                   | Ground for the Trigger Input               |
| O                                    | Analog Output                              |
| O-                                   | Ground for the Analog Output               |
| BZ                                   | Block Discharge                            |
| Awv                                  | Valve Output                               |
| a                                    | Valve Control Output +                     |
| b                                    | Valve Control Output 0 V                   |
| SY                                   | Synchronization                            |
| SY-                                  | Ground for the Synchronization             |
| E+                                   | Receiver-Line                              |
| E-                                   | Emitter-Line                               |
| ±                                    | Grounding                                  |
| SnR                                  | Switching Distance Reduction               |
| RxD                                  | Interface Receive Path                     |
| TxD                                  | Interface Send Path                        |
| RDY                                  | Ready                                      |
| GND                                  | Ground                                     |
| CL                                   | Clock                                      |
| E/A                                  | Output/Input programmable                  |
| IO-Link                              | IO-Link                                    |
| PoE                                  | Power over Ethernet                        |
| IN                                   | Safety Input                               |
| OSD                                  | Safety Output                              |
| Signal                               | Signal Output                              |
| BLD                                  | Ethernet Gigabit bidirect. data line (A-D) |
| EN0RS422                             | Encoder 0-pulse 0-0 (TTL)                  |
| ENARS422                             | Encoder A/A (TTL)                          |
| ENBRS422                             | Encoder B/B (TTL)                          |
| ENA                                  | Encoder A                                  |
| ENB                                  | Encoder B                                  |
| AMIN                                 | Digital output MIN                         |
| AMAX                                 | Digital output MAX                         |
| AOK                                  | Digital output OK                          |
| SY IN                                | Synchronization IN                         |
| SY OUT                               | Synchronization OUT                        |
| OLT                                  | Brightness output                          |
| M                                    | Maintenance                                |
| rsv                                  | reserved                                   |
| Wire Colors according to DIN IEC 757 |  |
| BK                                   | Black                                      |
| BN                                   | Brown                                      |
| RD                                   | Red  |
| OG                                   | Orange                                     |
| YE                                   | Yellow                                     |
| GN                                   | Green                                      |
| BU                                   | Blue                                       |
| VT                                   | Violet                                     |
| GY                                   | Grey                                       |
| WH                                   | White                                      |
| PK                                   | Pink                                       |
| GNYE                                 | Green/Yellow                               |

