

SEFB624

Part Number



- Multifunctional thanks to measuring function
- Quick alignment through visible red light
- Simple configuration and diagnosis with wTech2 software

The multi-light array can be attached anywhere thanks to the T slot and mounting bracket. The visible red light and signal strength display make it easy to align the emitter and the receiver. Safety mode, restart inhibit and contactor monitoring are included as standard functions. The protective equipment can be configured using the user-friendly IO-Link and wenglor software wTech2. Optional LED indicators visualize switch states or error messages.



Technical Data

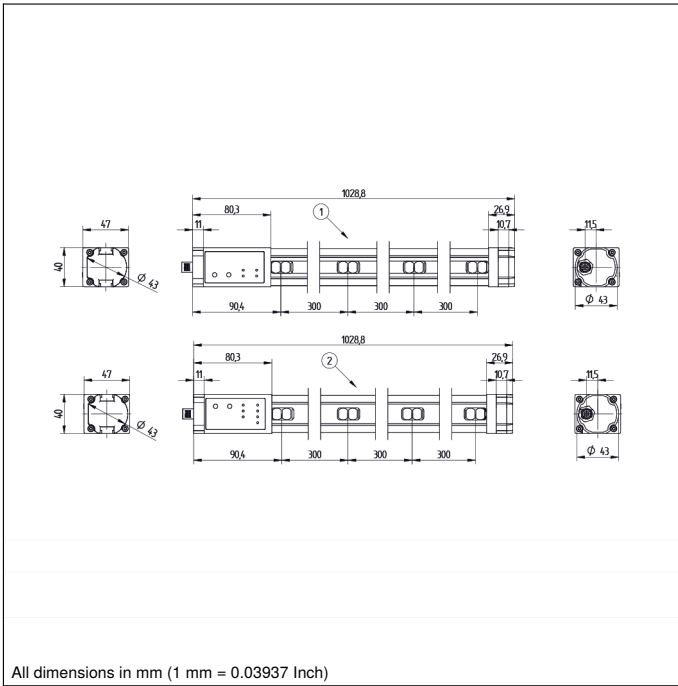
| Optical Data | |
|---|--------------------------|
| Range | 0,5...50 m |
| Beam Distance | 300 mm |
| Number of Beams | 4 |
| Light Source | Red Light |
| Max. Ambient Light | 10000 Lux |
| Opening Angle | ± 2,5 ° |
| Electrical Data | |
| Sensor Type | Receiver |
| Supply Voltage | 19,2...28,8 V DC |
| Current Consumption (U _b = 24 V) | ≤ 350 mA |
| Response Time | 15 ms |
| Temperature Range | -30...55 °C |
| Storage temperature | -30...70 °C |
| No. Safety Outputs (OSSDs) | 2 |
| Safety Output Voltage Drop | ≤ 2,3 V |
| PNP Safety Output/Switching Current | ≤ 300 mA |
| Number of Signal Outputs | 1 |
| Signal Output Voltage Drop | ≤ 2,5 V |
| Signal Output/Switching Current | ≤ 100 mA |
| Short Circuit and Overload Protection | yes |
| Reverse Polarity Protection | yes |
| Interface | IO-Link V1.1 |
| Protection Class | III |
| Mechanical Data | |
| Housing Material | Aluminum |
| Disc Material | Polycarbonate |
| Degree of Protection | IP65/IP67 |
| Connection | M12 × 1 |
| Safety-relevant Data | |
| ESPE Type (EN 61496) | 4 |
| Performance Level (EN ISO 13849-1) | Cat. 4 PL e |
| PFHD | ≤ 1.8 × 10 ⁻⁸ |
| Mission Time TM (EN ISO 13849-1) | 20 a |
| Safety Integrity Level (EN 61508) | SIL3 |
| Safety Integrity Level (EN 62061) | SILCL3 |
| Function | |
| Body Protection | yes |
| Scope of functions | Basic function |
| IO-Link | ● |
| Connection Diagram No. | 1029 |
| Control Panel No. | A40 |
| Suitable Connection Equipment No. | 89 |
| Suitable Mounting Technology No. | 860 870 880 |

Suitable Emitter

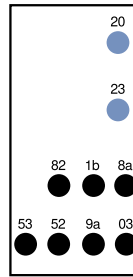
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Complementary Products

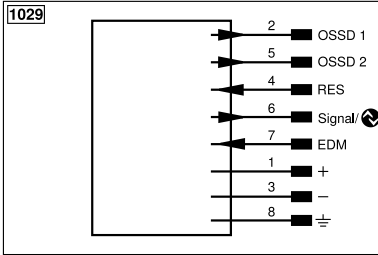
| |
|---|
| Connection box for muting sensors |
| IO-Link Master |
| Muting Sensor Set |
| Path-Folding Mirror Z2UG001 |
| Protection Column with Path-Folding Mirror SZ000EU125NN01 |
| Protection column with protective screen Z2SS001 |
| Safety Relay SG4-00VA000R2, SR4B3B01S, SR4D3B01S |
| Software |



All dimensions in mm (1 mm = 0.03937 Inch)

Ctrl. Panel
A40


- 03 = Error Indicator
- 1b = Contactor monitoring
- 20 = Enter key
- 23 = Down key
- 52 = OSSD ON
- 53 = OSSD OFF
- 60 = display
- 82 = Acknowledgement Request
- 8a = coding
- 9a = weak signal



| Legend | | | | | |
|-----------------------|--|-----------------------|--------------------------------|--|---------------------|
| + | Supply Voltage + | nc | Not connected | EN _{BRS422} | Encoder B/B̄ (TTL) |
| - | Supply Voltage 0 V | U | Test Input | ENA | Encoder A |
| ~ | Supply Voltage (AC Voltage) | Ū | Test Input inverted | EN _B | Encoder B |
| A | Switching Output (NO) | W | Trigger Input | AMIN | Digital output MIN |
| Ā | Switching Output (NC) | W- | Ground for the Trigger Input | AMAX | Digital output MAX |
| V | Contamination/Error Output (NO) | O | Analog Output | Aok | Digital output OK |
| V̄ | Contamination/Error Output (NC) | O- | Ground for the Analog Output | SY In | Synchronization In |
| E | Input (analog or digital) | BZ | Block Discharge | SY OUT | Synchronization OUT |
| T | Teach Input | Amv | Valve Output | OLT | Brightness output |
| Z | Time Delay (activation) | a | Valve Control Output + | M | Maintenance |
| S | Shielding | b | Valve Control Output 0 V | rsv | Reserved |
| RxD | Interface Receive Path | SY | Synchronization | Wire Colors according to DIN IEC 60757 | |
| 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 |
| EN _o RS422 | Encoder 0-pulse 0/0̄ (TTL) | EDM | Contact Monitoring | GNYE | Green/Yellow |
| PT | Platinum measuring resistor | EN _A RS422 | Encoder A/Ā (TTL) | | |

