

# Through Beam Sensors



## SA250-25M

Part Number

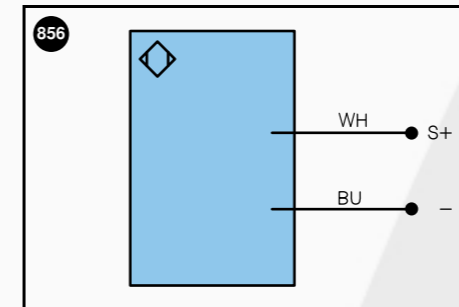
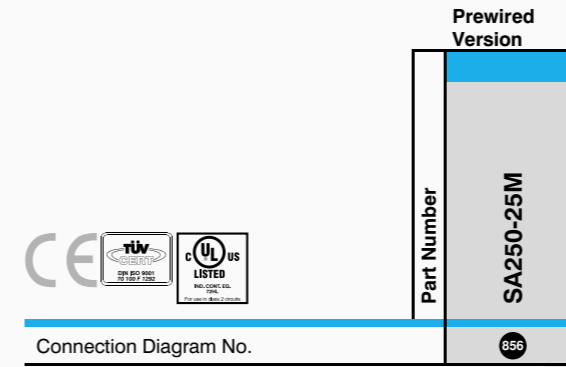
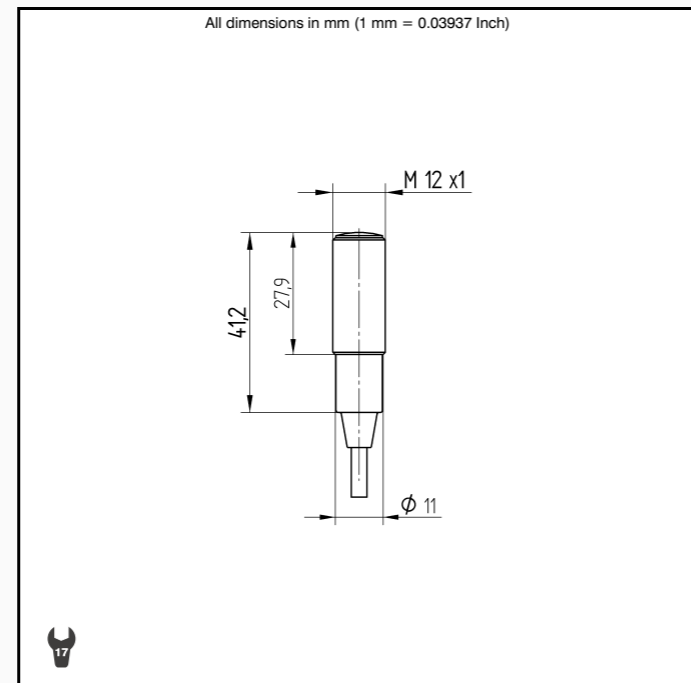
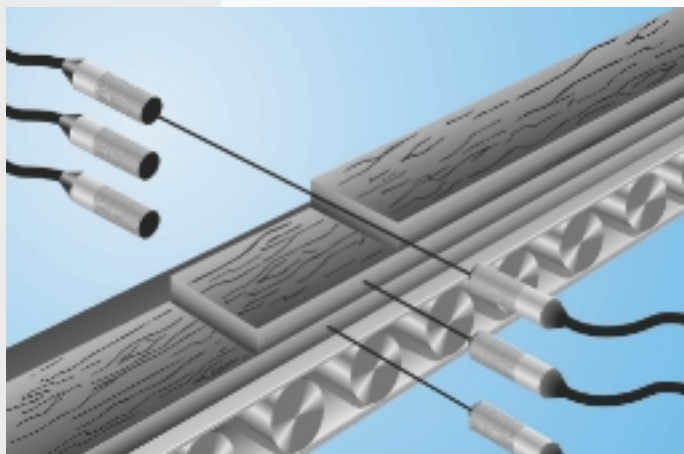


### Technical Data

| Optical Data                |                |
|-----------------------------|----------------|
| Range / adjustable          | 25000 mm       |
| Light Source                | Infrared Light |
| Service Life (T = +25°C)    | 100000 h       |
| Opening Angle               | 12°            |
| Electrical Data             |                |
| Sensor Type                 | Emitter        |
| Temperature Drift           | < 10 %         |
| Temperature Range           | -25...60 °C    |
| Short Circuit Protection    | yes            |
| Reverse Polarity Protection | yes            |
| Overload Protection         | yes            |
| Mechanical Data             |                |
| Housing                     | BrasNicPlated  |
| Full Encapsulation          | yes            |
| Protection Mode             | IP 67          |
| Connection                  | Prewired       |
| Cabel Length                | 25 m           |

- For connection to LV 250 control module
- Functions reliably with severe contamination
- No interactive influence

These through-beam sensors work in combination with the LV250 controller. They can be freely positioned as desired. Thanks to their large working range, the devices demonstrate excellent functional reliability in highly contaminated environments.



| Legend |                                   |    |                              |                                      |
|--------|-----------------------------------|----|------------------------------|--------------------------------------|
| +      | Power supply "+"                  | U  | Test input                   | Wire colors according to DIN IEC 757 |
| -      | Power supply "0V"                 | W  | Trigger input                | BK black                             |
| -      | Power supply (AC Voltage)         | O  | Analog output (1,2,3,...)    | BN brown                             |
| A      | Switching output (1,2,3...)/ NO   | O- | Ground for the analog output | RD red                               |
| A      | Switching output (1,2,3...)/ NC   | BZ | Block discharge              | OG orange                            |
| V      | Contamination / Error output (NO) | Aw | Valve output                 | GN green                             |
| V      | Contamination / Error output (NC) | a  | Valve control output "+"     | BU blue                              |
| E      | Input (analog or digital)         | b  | Valve control output "0V"    | VT violet                            |
| T      | Teach input                       | SY | Synchronization              | GY grey                              |
| Z      | Time delay (activation)           | E+ | Receiver-Line                | WH white                             |
| S      | Shielding                         | S+ | Emitter-Line                 | PK pink                              |
| RxD    | RS-232 receive path               | ⊕  | Grounding                    | GNYE green yellow                    |
| TxD    | RS-232 send path                  |    |                              |                                      |

### Accessories

- Mounting Clamp BSM12B
- Mounting Bracket W12
- Controller LV250