

Through Beam Sensors



SM982

Part Number

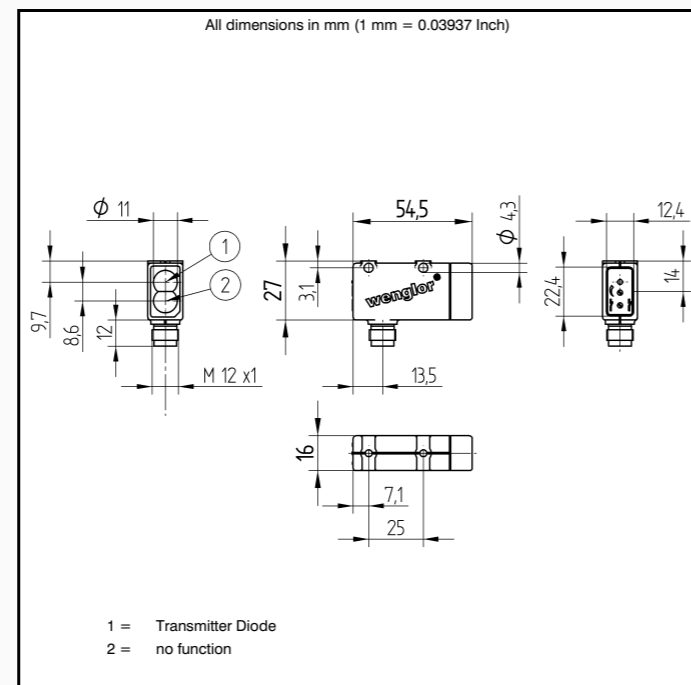
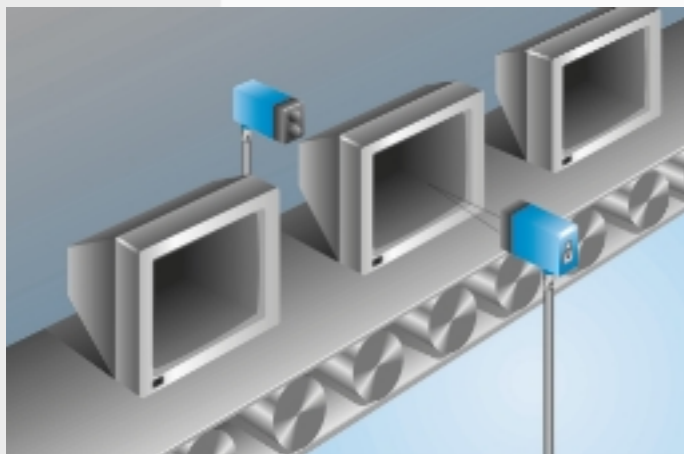


Technical Data

| Optical Data | |
|--|--------------|
| Range | 10000 mm |
| Light Source | Red Light |
| Service Life (T = +25°C) | 100000 h |
| Opening Angle | 4 ° |
| Electrical Data | |
| Sensor Type | Emitter |
| Supply Voltage | 10...30 V DC |
| Current Consumption (U _b = 24V) | < 40 mA |
| Temperature Drift | < 10 % |
| Temperature Range | -10...60 °C |
| Switching Output Voltage Drop | < 2.5 V |
| Short Circuit Protection | yes |
| Reverse Polarity Protection | yes |
| Overload Protection | yes |
| Mechanical Data | |
| Housing | Plastic |
| Full Encapsulation | yes |
| Protection Mode | IP 67 |
| Connection | M 12x1 |
| Protective Insulation, Rated Voltage | 50 V |

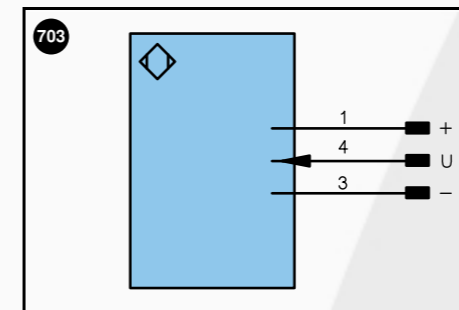
- Compact Housing
- Red Light
- Suitable for use as a muting barrier
- Test Input

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



Specifications are subject to change without notice
28/02

| | | | | | | |
|------------------------|--|------|-----------|-----------|-------------|--------------|
| CE | | 50 V | UL LISTED | UL LISTED | Part Number | Plug Version |
| | | | | | SM982 | |
| Connection Diagram No. | | | | | 703 | |
| Control Panel No. | | | | | K3 | |
| Suitable Plug No. | | | | | | |



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

Accessories

Mounting Bracket WM2

Ctrl. Panel



04 = Function Indicator