

Part Number



## Technical Data

## Electrical Data

|                |               |
|----------------|---------------|
| Supply Voltage | ≤ 250 V AC/DC |
|----------------|---------------|

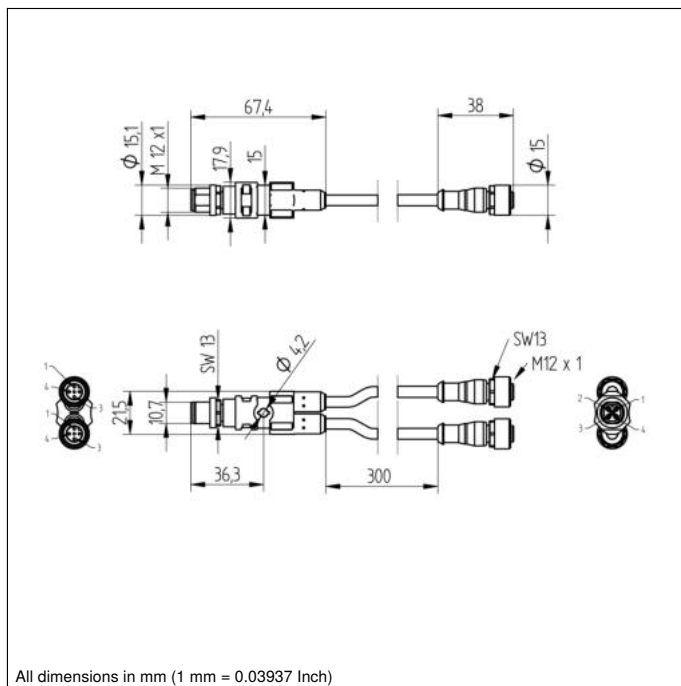
## Mechanical Data

|                                        |                  |
|----------------------------------------|------------------|
| Connection 1                           | Plug, straight   |
| Connection mode 1                      | M12 × 1, 4-pin   |
| Connection 2                           | Socket, straight |
| Connection mode 2                      | M12 × 1, 4-pin   |
| Torque                                 | M12: 0,6 Nm      |
| Cable Length                           | 0,3 m            |
| Outer diameter (d)                     | 4,3 mm           |
| Wire cross-section                     | 0,34 mm²         |
| Degree of Protection                   | IP65/IP67        |
| Temperature range (fixed installation) | -40...80 °C      |
| Temperature range (moving application) | -25...80 °C      |
| Cable Jacket Material                  | PUR              |
| Material Wire Insulation               | PP               |

|                |         |
|----------------|---------|
| Packaging unit | 1 Piece |
|----------------|---------|

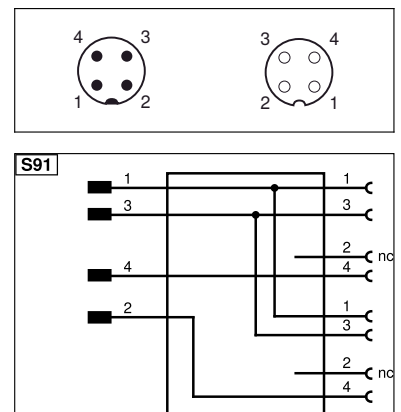
Connection Diagram No. **S91**

|                          |   |    |
|--------------------------|---|----|
| Connection Equipment No. | 2 | 2s |
|--------------------------|---|----|



\* Per terminal

- **PUR, straight**



| Legend                                                                              |                                            |                     |                                |                                        |                     |
|-------------------------------------------------------------------------------------|--------------------------------------------|---------------------|--------------------------------|----------------------------------------|---------------------|
| +                                                                                   | Supply Voltage +                           | nc                  | Not connected                  | EN <sup>RS422</sup>                    | Encoder B/B (TTL)   |
| -                                                                                   | Supply Voltage 0 V                         | U                   | Test Input                     | EN <sub>A</sub>                        | Encoder A           |
| ~                                                                                   | Supply Voltage (AC Voltage)                | Ü                   | Test Input inverted            | EN <sub>B</sub>                        | Encoder B           |
| A                                                                                   | Switching Output (NO)                      | W                   | Trigger Input                  | AM <sub>IN</sub>                       | Digital output MIN  |
| Ä                                                                                   | Switching Output (NC)                      | W-                  | Ground for the Trigger Input   | AM <sub>AX</sub>                       | Digital output MAX  |
| V                                                                                   | Contamination/Error Output (NO)            | O                   | Analog Output                  | AO <sub>K</sub>                        | Digital output OK   |
| Ÿ                                                                                   | Contamination/Error Output (NC)            | O-                  | Ground for the Analog Output   | SY <sub>IN</sub>                       | Synchronization IN  |
| E                                                                                   | Input (analog or digital)                  | BZ                  | Block Discharge                | SY <sub>OUT</sub>                      | Synchronization OUT |
| T                                                                                   | Teach Input                                | AM <sub>V</sub>     | Valve Output                   | OLT                                    | Brightness output   |
| Z                                                                                   | Time Delay (activation)                    | a                   | Valve Control Output +         | M                                      | Maintenance         |
| S                                                                                   | Shielding                                  | b                   | Valve Control Output 0 V       | RS                                     | Reserved            |
| RxD                                                                                 | Interface Receive Path                     | SY                  | Synchronization                | Wire Colors according to DIN IEC 60757 |                     |
| TxD                                                                                 | Interface Send Path                        | SY-                 | Ground for the Synchronization |                                        |                     |
| RDY                                                                                 | Ready                                      | E+                  | Receiver-Line                  |                                        |                     |
| GND                                                                                 | Ground                                     | S+                  | Emitter-Line                   |                                        |                     |
| 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               |
| BL_D-/+                                                                             | Ethernet Gigabit bidirect. data line (A-D) | RES                 | Input confirmation             | PK                                     | Pink                |
| EN <sup>RS422</sup>                                                                 | Encoder 0-pulse 0/0° (TTL)                 | EDM                 | Control Monitoring             | GN <sub>YE</sub>                       | Green/Yellow        |
| PT                                                                                  | Platinum measuring resistor                | EN <sup>RS422</sup> | Encoder A/A° (TTL)             |                                        |                     |

Specifications are subject to change without notice