

# Connection Line

M12 × 1; 12-pin

## ZDCL001

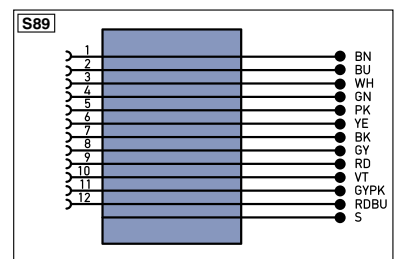
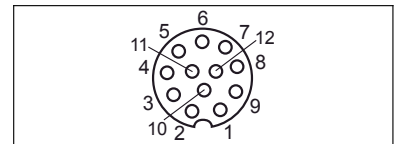
Part Number



### Technical Data

| Mechanical Data                                    |                      |
|--|----------------------|
| Connection 1                                       | Socket, straight     |
| Connection mode 1                                  | M12 × 1, 12-pin      |
| Connection 2                                       | stripped             |
| Torque   | M12: 0,6 Nm          |
| Cable Length                                       | 2 m                  |
| Diameter Cable                                     | 6,5 mm               |
| Wire cross-section                                 | 0,14 mm <sup>2</sup> |
| Degree of Protection                               | IP67                 |
| Temperature Range                                  | -25...85 °C          |
| Material Cable Jacket                              | PUR                  |
| Material Wire Isolation                            | TPE                  |
| Material Cap Nut                                   | CuZn, nickel-plated  |
| Screened   | yes                  |
| Halogen-free                                       | yes                  |
| Drag Chain Suitable                                | yes                  |
| Bending radius (fixed installation)                | 5 × d                |
| Bending radius (used in motion)                    | 10 × d               |
| Travel speed (with 5 m horizontal travel distance) | ≤ 3,3 m/s            |
| Acceleration                                       | ≤ 5 m/s <sup>2</sup> |
| Bending cycles                                     | ≤ 5000000            |
| Packaging unit                                     | 1 Piece              |
| Connection Diagram No.                             | <b>S89</b>           |
| Connection Technology No.                          | <b>87</b>            |

- Drag chain suitable
- PUR, straight
- Screened



| Legend   |  |          |                              |        |                     |
|----------|--|----------|------------------------------|--------|---------------------|
| +        | Supply Voltage +                           | PT       | Platinum measuring resistor  | ENa    | Encoder A           |
| -        | Supply Voltage 0 V                         | nc       | not connected                | ENb    | Encoder B           |
| ~        | Supply Voltage (AC Voltage)                | U        | Test Input                   | AMIN   | Digital output MIN  |
| A        | Switching Output (NO)                      | Ū        | Test Input inverted          | AMAX   | Digital output MAX  |
| Ā        | Switching Output (NC)                      | W        | Trigger Input                | AOK    | Digital output OK   |
| V        | Contamination/Error Output (NO)            | Q        | Analog Output                | SY in  | Synchronization In  |
| ∇        | Contamination/Error Output (NC)            | O-       | Ground for the Analog Output | SY OUT | Synchronization OUT |
| E        | Input (analog or digital)                  | BZ       | Block Discharge              | 0:1    | Brightness output   |
| T        | Teach Input                                | AWV      | Valve Output                 | M      | Maintenance         |
| Z        | Time Delay (activation)                    | a        | Valve Control Output +       |        |                     |
| S        | Shielding                                  | b        | Valve Control Output 0 V     |        |                     |
| RxD      | Interface Receive Path                     | SY       | Synchronization              |        |                     |
| TxD      | Interface Send Path                        | E+       | Receiver-Line                |        |                     |
| RDY      | Ready                                      | S+       | Emitter-Line                 |        |                     |
| GND      | Ground                                     | ⊕        | Grounding                    |        |                     |
| CL       | Clock                                      | SrR      | Switching Distance Reduction |        |                     |
| E/A      | Output/Input programmable                  | Rx+/-    | Ethernet Receive Path        |        |                     |
| IO-Link  | IO-Link                                    | Tx+/-    | Ethernet Send Path           |        |                     |
| PoE      | Power over Ethernet                        | BuS      | Interfaces-Bus A(+)/B(-)     |        |                     |
| IN       | Safety Input                               | La       | Emitted Light disengageable  |        |                     |
| OSSD     | Safety Output                              | Mag      | Magnet activation            |        |                     |
| Signal   | Signal Output                              | RES      | Input confirmation           |        |                     |
| BI-D+/-  | Ethernet Gigabit bidirect. data line (A-D) | EDM      | Contactor Monitoring         |        |                     |
| EN0PMS22 | Encoder 0-pulse 0-0 (TTL)                  | ENAPMS22 | Encoder A/A (TTL)            |        |                     |
|          |  | ENBPMS22 | Encoder B/B (TTL)            |        |                     |

| 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 |

Specifications are subject to change without notice