

# Connection Line

M12 × 1; 12-pin

## ZDCL006

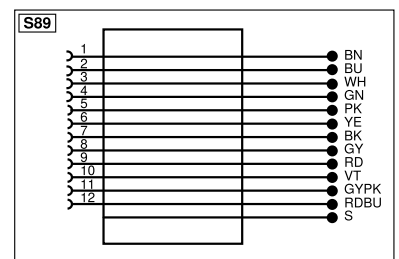
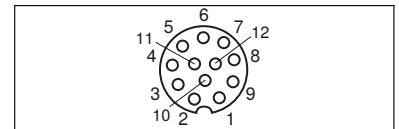
Part Number



### Technical Data

| Electrical Data                                    |                      |
|----------------------------------------------------|----------------------|
| Supply Voltage                                     | ≤ 30 V DC            |
| Mechanical Data                                    |                      |
| Connection 1                                       | Socket, angled       |
| Connection mode 1                                  | M12 × 1, 12-pin      |
| Connection 2                                       | stripped             |
| Torque                                             | M12: 0,6 Nm          |
| Cable Length                                       | 10 m                 |
| Outer diameter (d)                                 | 6,5 mm               |
| Wire cross-section                                 | 0,14 mm <sup>2</sup> |
| Degree of Protection                               | IP67                 |
| Temperature range (fixed installation)             | -40...85 °C          |
| Temperature range (moving application)             | -25...85 °C          |
| Cable Jacket Material                              | PUR                  |
| Material Wire Insulation                           | TPE                  |
| Material Sleeve 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              |
| {Anzahl Torsionszyklen}                            | 2000000              |
| Packaging unit                                     | 1 Piece              |
| Connection Diagram No.                             | <b>S89</b>           |
| Connection Equipment No.                           | <b>87</b>            |

- Drag chain suitable
- PUR, angled
- Screened



| Legend                                                                              |                                            |                     |                                |                                        |                     |
|-------------------------------------------------------------------------------------|--------------------------------------------|---------------------|--------------------------------|----------------------------------------|---------------------|
| +                                                                                   | Supply Voltage +                           | nc                  | Not connected                  | ENB <sub>RS422</sub>                   | Encoder B/Ĕ (TTL)   |
| -                                                                                   | Supply Voltage 0 V                         | U                   | Test Input                     | ENa                                    | Encoder A           |
| ~                                                                                   | Supply Voltage (AC Voltage)                | Ů                   | Test Input inverted            | ENb                                    | 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   |
| Ų                                                                                   | 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                   | QLT                                    | 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 |                                        |                     |
| RDY                                                                                 | Ready                                      | E+                  | Receiver-Line                  | BK                                     | Black               |
| GND                                                                                 | Ground                                     | S+                  | Emitter-Line                   | BN                                     | Brown               |
| CL                                                                                  | Clock                                      | ±                   | Grounding                      | RD                                     | Red                 |
| E/A                                                                                 | Output/Input programmable                  | SnR                 | Switching Distance Reduction   | OG                                     | Orange              |
|  | IO-Link                                    | Rx+/-               | Ethernet Receive Path          | YE                                     | Yellow              |
| PoE                                                                                 | Power over Ethernet                        | Tx+/-               | Ethernet Send Path             | GN                                     | Green               |
| IN                                                                                  | Safety Input                               | Bus                 | Interfaces-Bus A(+)/B(-)       | BU                                     | Blue                |
| QSSD                                                                                | Safety Output                              | La                  | Emitted Light disengageable    | VT                                     | Violet              |
| Bl_D+/-                                                                             | Ethernet Gigabit bidirect. data line (A-D) | Mag                 | Magnet activation              | GY                                     | Grey                |
| EN <sub>RS422</sub>                                                                 | Encoder 0-pulse 0/Ĕ (TTL)                  | RES                 | Input confirmation             | WH                                     | White               |
| PT                                                                                  | Platinum measuring resistor                | EDM                 | Contacteur Monitoring          | PK                                     | Pink                |
|                                                                                     |                                            | EN <sub>RS422</sub> | Encoder A/Ā (TTL)              | GNYE                                   | Green/Yellow        |