

# Connection Cable

M12 × 1; 12-pin

## ZAV12R601

Part Number

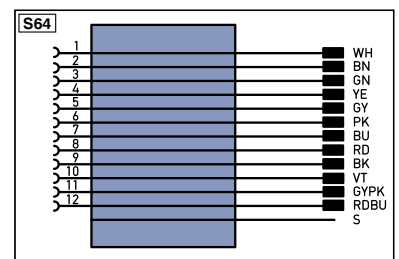
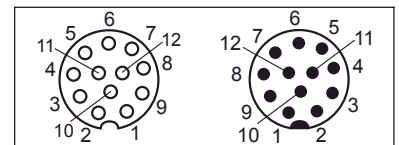


### Technical Data

#### Mechanical Data

|                          |                     |
|--------------------------|---------------------|
| Connection 1             | Socket, straight    |
| Connection mode 1        | M12 × 1, 12-pin     |
| Connection 2             | Plug, straight      |
| Connection mode 2        | M12 × 1, 12-pin     |
| Cable Length             | 10 m                |
| Cable Diameter           | 6,4 mm              |
| Wire cross-section       | 0,14 mm²            |
| Degree of Protection     | IP69K               |
| Temperature Range        | -25...90 °C         |
| Cable Jacket Material    | PUR                 |
| Material Wire Insulation | PP                  |
| Material Sleeve Nut      | CuZn, nickel-plated |
| Screened                 | yes                 |
| Halogen-free             | yes                 |
| Drag Chain Suitable      | yes                 |
| Packaging unit           | 1 Piece             |
| Connection Diagram No.   | <b>S64</b>          |
| Connection Equipment No. | <b>12</b>           |

- Plug M12 × 1, straight
- Socket M12 × 1, straight



| Legend   |                                            |                                      |
|----------|--------------------------------------------|--------------------------------------|
| +        | Supply Voltage +                           | PT Platinum measuring resistor       |
| -        | Supply Voltage 0 V                         | nc not connected                     |
| ~        | Supply Voltage (AC Voltage)                | U Test Input                         |
| A        | Switching Output (NO)                      | Ū Test Input inverted                |
| Ā        | Switching Output (NC)                      | W Trigger Input                      |
| V        | Contamination/Error Output (NO)            | W- Ground for the Trigger Input      |
| Ṽ        | Contamination/Error Output (NC)            | O Analog Output                      |
| E        | Input (analog or digital)                  | O- Ground for the Analog Output      |
| T        | Teach Input                                | BZ Block Discharge                   |
| Z        | Time Delay (activation)                    | AWV Valve Output                     |
| S        | Shielding                                  | a Valve Control Output +             |
| RxD      | Interface Receive Path                     | b Valve Control Output 0 V           |
| TxD      | Interface Send Path                        | SY Synchronization                   |
| RDY      | Ready                                      | SY- Ground for the Synchronization   |
| GND      | Ground                                     | E+ Receiver-Line                     |
| CL       | Clock                                      | S+ Emitter-Line                      |
| E/A      | Output/Input programmable                  | ± Grounding                          |
| Ⓢ        | IO-Link                                    | SnR Switching Distance Reduction     |
| PoE      | Power over Ethernet                        | Rx+/- Ethernet Receive Path          |
| IN       | Safety Input                               | Tx+/- Ethernet Send Path             |
| QSSD     | Safety Output                              | Bus Interfaces-Bus A(+)/B(-)         |
| Signal   | Signal Output                              | La Emitted Light disengageable       |
| Bi-D+/-  | Ethernet Gigabit bidirect. data line (A-D) | Mag Magnet activation                |
| EN095422 | Encoder 0-pulse 0-0 (TTL)                  | RES Input confirmation               |
|          |                                            | EDM Contactor Monitoring             |
|          |                                            | EN095422 Encoder A/A (TTL)           |
|          |                                            | EN095422 Encoder B/B (TTL)           |
|          |                                            | ENA Encoder A                        |
|          |                                            | ENa Encoder B                        |
|          |                                            | AMIN Digital output MIN              |
|          |                                            | AMAX Digital output MAX              |
|          |                                            | AOK Digital output OK                |
|          |                                            | SY in Synchronization In             |
|          |                                            | SY OUT Synchronization OUT           |
|          |                                            | OLt Brightness output                |
|          |                                            | M Maintenance                        |
|          |                                            | rsv reserved                         |
|          |                                            | 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                    |