# Connection Socket

**M12 × 1; 8-pin**

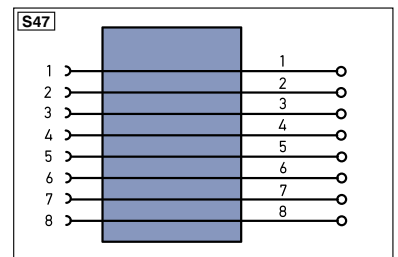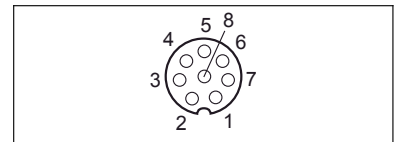## BW80-ME

Part Number



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## Technical Data

| Mechanical Data | |
|---|---|
| Connection 1 | Socket, angled |
| Connection mode 1 | M12 × 1, 8-pin |
| Torque | M12: 0,6 Nm |
| Cable Diameter | 4...8 mm |
| Wire cross-section | ≤ 0,5 mm² |
| Assembling | Screw Terminal Technology |
| Degree of Protection | IP67 |
| Temperature Range | -25...90 °C |
| Material Sleeve Nut | CuZn, nickel-plated |
| Packaging unit | 1 Piece |
| Connection Diagram No. | S47 |
| Connection Equipment No. | 80 |

● **Socket M12 × 1, angled**





### Legend

| | | | | | | |
|---|---|---|---|---|---|---|
| + | Supply Voltage + | PT | Platinum measuring resistor | ENARS422 | Encoder A/Ā (TTL) |
| − | Supply Voltage 0 V | nc | not connected | ENBRS422 | Encoder B/B̄ (TTL) |
| ~ | Supply Voltage (AC Voltage) | U | Test Input | ENA | Encoder A |
| A | Switching Output (NO) | Ū | Test Input inverted | ENB | Encoder B |
| Ā | Switching Output (NC) | W | Trigger Input | AMIN | Digital output MIN |
| V | Contamination/Error Output (NO) | W− | Ground for the Trigger Input | AMAX | Digital output MAX |
| V̄ | Contamination/Error Output (NC) | O | Analog Output | AOK | Digital output OK |
| E | Input (analog or digital) | O− | Ground for the Analog Output | SY In | Synchronization In |
| T | Teach Input | BZ | Block Discharge | SY OUT | Synchronization OUT |
| Z | Time Delay (activation) | AMV | Valve Output | OLT | Brightness output |
| S | Shielding | a | Valve Control Output + | M | Maintenance |
| RxD | Interface Receive Path | b | Valve Control Output 0 V | rsv | reserved |
| TxD | Interface Send Path | SY | Synchronization | | Wire Colors according to DIN IEC 757 |
| RDY | Ready | SY− | Ground for the Synchronization | BK | Black |
| GND | Ground | E+ | Receiver-Line | BN | Brown |
| CL | Clock | S+ | Emitter-Line | RD | Red |
| E/A | Output/Input programmable | ⏚ | Grounding | OG | Orange |
| ⬡ IO-Link | | SnR | Switching Distance Reduction | YE | Yellow |
| PoE | Power over Ethernet | Rx+/− | Ethernet Receive Path | GN | Green |
| IN | Safety Input | Tx+/− | Ethernet Send Path | BU | Blue |
| OSSD | Safety Output | Bus | Interfaces-Bus A(+)/B(−) | VT | Violet |
| Signal | Signal Output | La | Emitted Light disengageable | GY | Grey |
| BI_D+/− | Ethernet Gigabit bidirect. data line (A-D) | Mag | Magnet activation | WH | White |
| EN0RS422 | Encoder 0-pulse 0-0̄ (TTL) | RES | Input confirmation | PK | Pink |
| | | EDM | Contactor Monitoring | GNYE | Green/Yellow |