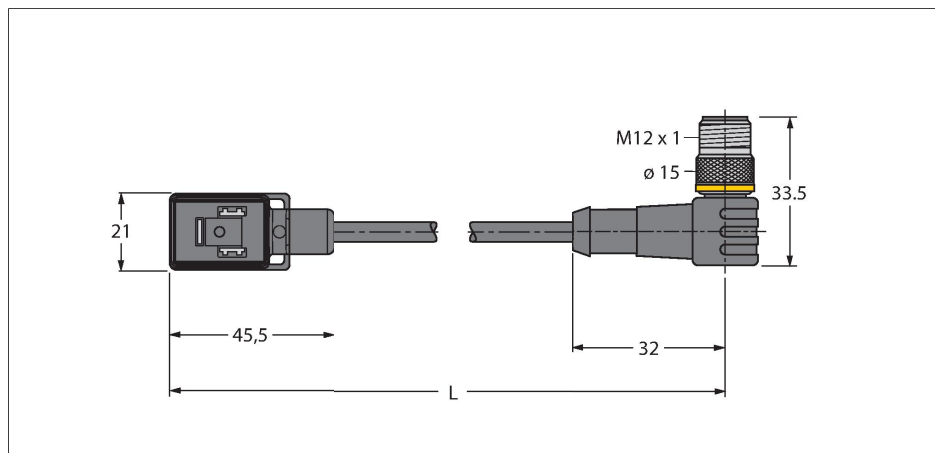


# VBS02-S80E-1-WSC5.31T/TXL

## Valve connector B type – Extension Cable

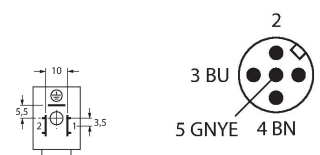


### Features

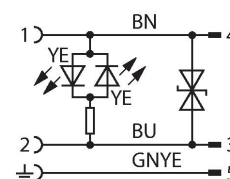


- 2-pin + PE
- Design according to the DIN EN 175301-803
- RoHS-compliant
- Protection class: IP65, IP67, IP68
- Protective component: Transil diode
- M12 male, angled, 2-pin + PE
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals and oils
- UV and ozone resistance
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- Cable length: 1.0 m

### Contact assignment



### Circuit Diagram



### Technical data

|                                 |                                 |
|---------------------------------|---------------------------------|
| Type                            | VBS02-S80E-1-WSC5.31T/TXL       |
| ID                              | 6606576                         |
| Connector A                     | Valve connector, Design B       |
| Number of pins                  | 2+PE                            |
| Contacts                        | Metal, CuSn, Silver-plated      |
| Contact carriers                | Plastic, PA, Black              |
| Connector body                  | Plastic, TPU, Black/Translucent |
| Protective component            | Transil diode                   |
| Seal                            | Plastic, TPU                    |
| Display switch state            | LED, Yellow/yellow              |
| Mechanical lifespan             | > 100 Mating cycles             |
| Pollution degree                | 3                               |
| Protection class                | IP65, IP67, IP68, (mounted)     |
| Connector B                     | Male, Angled                    |
| Cable diameter                  | Ø 5.2 mm ±0.20                  |
| Cable length                    | 1 m                             |
| Cable jacket                    | PUR, Black                      |
| Core insulation                 | PP                              |
| Core cross-section              | 3 x 0.75 mm <sup>2</sup>        |
| Arrangement of strands          | 42 x 0.1 mm                     |
| Core colors                     | BN, BU, GNYE                    |
| Electrical properties at +20 °C |                                 |
| Rated voltage                   | 24 V                            |
| Test voltage                    | 2000 V                          |
| Current                         | 4 A                             |
| Insulation resistance           | > 1 MΩ/km                       |
| Insulation resistance           | ≥ ≥ 10 <sup>6</sup> Ω           |

## Technical data

|                                          |                              |
|------------------------------------------|------------------------------|
| forward resistance                       | max. 57 $\Omega$ /km         |
| Mechanical and chemical properties       |                              |
| Max. tensile strength (static)           | $\leq 50 \text{ N/mm}^2$     |
| Max. tensile strength (dynamic)          | $\leq 20 \text{ N/mm}^2$     |
| Bending radius (stationary installation) | $\geq 5 \times \varnothing$  |
| Bending radius (flexible use)            | $\geq 10 \times \varnothing$ |
| Bending cycles                           | $\geq 3 \text{ million}$     |
| Admissible acceleration                  | max. 5 $\text{m/s}^2$        |
| Admissible travel path, horizontal       | 5 m (at 5 $\text{m/s}^2$ )   |
| Admissible travel path, vertical         | 2 m (at 5 $\text{m/s}^2$ )   |
| Admissible traversing speed              | 3.3 m/s                      |
| Torsional stress                         | $\pm 180^\circ/\text{m}$     |
| Ambient temperature (fixed)              | -40...+80 $^\circ\text{C}$   |
| Ambient temperature (mobile)             | -30...+90 $^\circ\text{C}$   |
| Ambient temperature (drag chain)         | -25...+60 $^\circ\text{C}$   |
| Mounting screw                           | Brass, CuZn, nickel-plated   |