

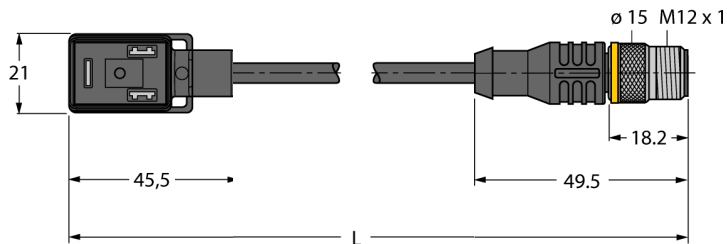
Valve connector BI type

Extension cable

VIS02-S80E-1-RSC5.31T/TXL

TURCK

Industrial
Automation

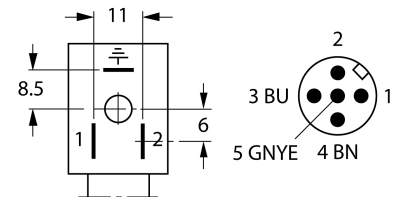


- 2-pin + PE
- Design according to the DIN EN 175301-803
- RoHS conform
- Protection class: IP67 and IP69K
- Protective component: Transil diode
- M12 male, straight, 2-pin + PE
- Sheath material: PUR
- Sheath color: black
- Qualified for drag chain use
- Resistant to weld splatter
- Resistant to chemicals and oils
- UV and ozone resistance
- Flame retardant
- Free from halogen, silicone, PVC and LABS
- Cable length: 1.0 m

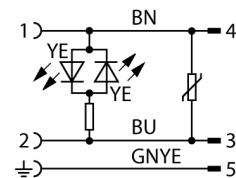
Type designation VIS02-S80E-1-RSC5.31T/TXL
Ident no. 6606525

Connector A side
Valve connector, Design BI
Number of pins 2+PE
Contacts Metal, CuSn, Silver-plated
Contact carriers Plastic, PA, Black
Grip Plastic, TPU, Black/Translucent
Protective component Transil diode
Seal Plastic, TPU
Protection class IP67, IP69K, (mounted)
Display switch state LED yellow/yellow
Mechanical lifespan > 100 Mating cycles
Pollution degree 3

Pin Assignment



Circuit Diagram



Connector B side
Connector, M12 x 1, Straight
Number of pins 2+PE pins
Contacts metal, CuZn, Gold-plated
Contact carriers Plastic, TPU, Black
Grip Plastic, TPU, Black
Coupling nut/screw Brass, CuZn, Nickel-plated
Protection class IP67, IP69K, Only when screwed tight
Mechanical lifespan > 100 Mating cycles
Pollution degree 3
Tightening torque 0.8 ... 1 Nm

General data
Cable diameter 5.2 ± 0.20mm
Cable length 1 m
Cable quality PUR
Cable color Black
Core insulation PP
Core colors BN, BU, GNYE
Core cross-section 3x0.34mm²
Arrangement of strands 42x0.1 mm

Electrical features at +20 °C
Current 4 A
Rated voltage 24 V
Insulation resistance > 1 MΩ/km
Test voltage 2000 V
Forward resistance max. 57 Ω/km

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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 cycles	$> 5 \text{ mil.}$
Bending radius (stationary laying)	$> 5 \times \varnothing$
Bending radius (flexible use)	$> 10 \times \varnothing$
Admissible acceleration	max. 5 m/s^2
Admissible travel path, horizontal	5 m (at 5 m/s^2)
Admissible travel path, vertical	2 m (at 5 m/s^2)
Admissible traversing speed	3.3 m/s
Torsional stress	$\pm 180^\circ/\text{m}$
Ambient temperature	
Stationary	$-50 \dots +80^\circ\text{C}$
In motion	$-30 \dots +90^\circ\text{C}$
Drag chain operation	$-25 \dots +60^\circ\text{C}$