

M12 male on top A-cod. / MSUD double valve B-10mm

PVC 3x0.75 ye 0m

Art.No.: 7000-41661-0160000

Weight: 0.068

Country of origin: CZ

Model designation: MSNL3-016_200-NL3-A

Form B (10 mm) – M12, connector top entry

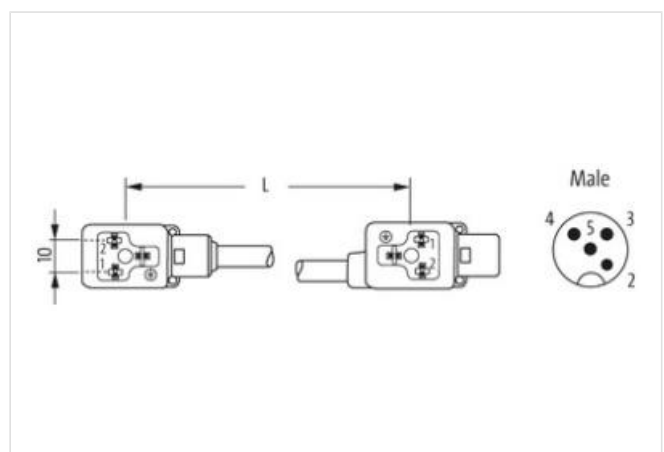
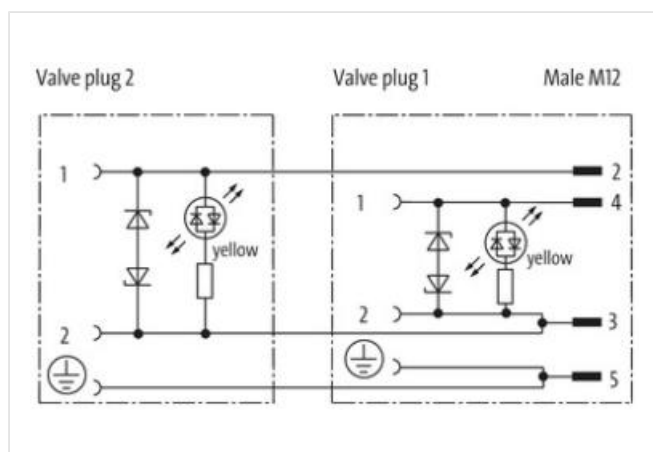
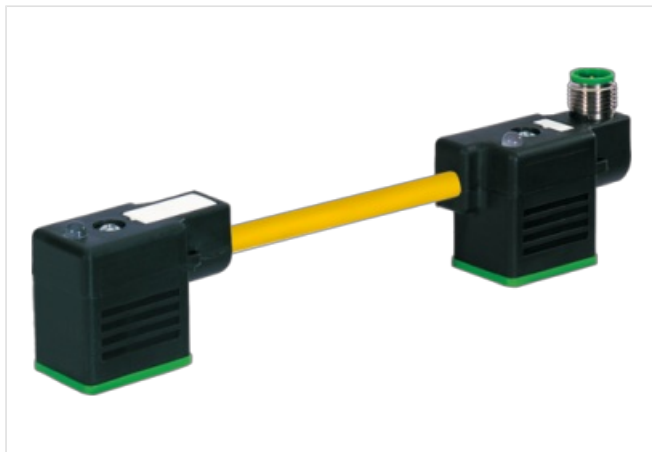
24 V AC $\pm 20\%$ / DC $\pm 25\%$

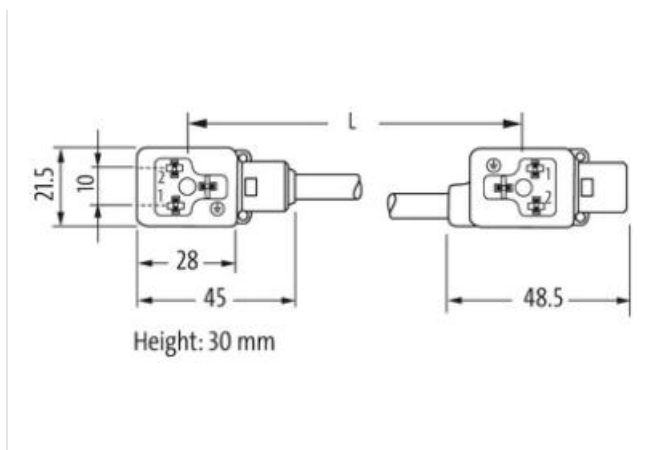
LED and suppression

Connection cable L = 200 mm

Plastic housings with good resistance against chemicals and oils.

The resistance to aggressive media should be individually tested for your application. Further details on request.

[Link to Product](#)**Illustration**



Product may differ from Image

**Side 1**

Tightening torque	0,4 Nm
Thread	M3

Side 2

Tightening torque	0,4 Nm
Thread	M3

Commercial data

ECLASS-6.0	27061801
customs tariff number	85444290
GTIN	4065909097694
Packaging unit	1

Electrical data

Drop-out delay time max.	20 ms
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Electrical data | Supply

Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	12 mA

Diagnostics

Status indication LED	yellow
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Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67
Degree of protection (ISO 20653:2013)	IP66K
Additional condition protection degree	inserted, screwed

Mechanical data | Material data

Color housing	black
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Material housing Plastic

Mechanical data | Mounting data

Mounting method inserted, screwed

Environmental characteristics | Climatic

Operating temperature min. -25 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

Important installation notes

Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

Note on bending radius **Attention:** Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

Installation | Cable

wire arrangement black 1, black 2, green-yellow

Cable identification 016

Cable Type 1

Printing color of wire insulation white (isolation black)

Jacket Color yellow

Amount stranding 1

Stranding 3 wires twisted

wire arrangement black 1, black 2, green-yellow

Cable weight 63,8 g/m

Material jacket PVC

Shore hardness jacket 80 ± 5 Shore A

Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free

Outer-diameter (jacket) 5,9 mm

Tolerance outer diameter (sheath) ± 5 %

Material wire insulation PVC

Amount wires 3

Outer diameter insulation 1,8 mm

Outer diameter tolerance core insulation ± 5 %

Shore hardness wire insulation 43 ± 5 Shore D

Material properties wire insulation good machinability

Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free

Printing color of wire insulation white (isolation black)

Amount strands (wire) 24

Diameter of single wires 0,2 mm

Conductor crosssection (wire) 0,75 mm²

Material conductor wire Stranded copper wire, bare

Conductor type (wire) Strand class 5

Max. rated voltage (conductor - conductor) 500 V

Max. rated voltage (conductor - ground) 300 V

Current load capacity (standard) to DIN VDE 0298-4

Current load capacity min. wire 12 A

Electrical resistance line constant wire 26 Ω/km @ 20 °C

AC withstand voltage (wire - wire) 3 kV @ 60 s

Power frequency withstand voltage (wire - jacket) 3 kV @ 60 s

Min. operating temperature (static) -30 °C

Max. operating temperature (fixed) 70 °C

Operating temperature min. (dynamic) -5 °C

Operating temperature max. (dynamic) 70 °C

Flame resistance IEC 60332-2-2 | UL 1581 § 1100 FT2 | UL 1581 § 1090

chemical resistance Good, application-related testing

Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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