

## M12 male 90° A-cod. / MSUD valve plug B-10mm

PVC 3x0.75 bk 1m

Form B (10 mm) - M12, male 90° 24 V AC ±20% / DC ±25% LED and suppression

Further cable lengths on request.

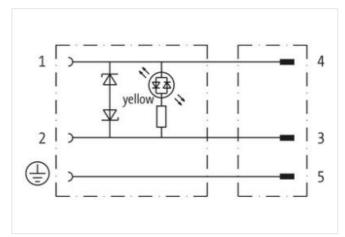
Plastic housings with good resistance against chemicals and oils.

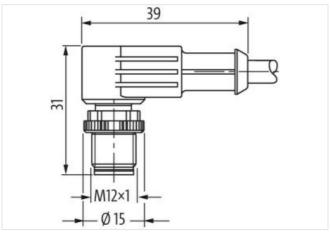
The resistance to aggressive media should be individually tested for your application. Further details on request.

## **Link to Product**

## Illustration







Product may differ from Image



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41021 Form

**Technical Data** 

24 V AC ±20% / DC ±25% Operating voltage

The information in this brochure has been compiled with the utmost care.

Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2022-11-13



## stay connected

Operating current per contact         max. 4 A           Current consumption         approx. 12 mA           Switch off peak         max. 55 V           LED display         (yellow)           Led display         (yellow)           Protection         IP66K, IP67 inserted and tightened (EN 60529)           Protection         IP66K, IP67 inserted and tightened (EN 60529)           Housing         Black plastic (gray on request)           Switch off delay time         max. 20 ms           General date         Temperature range         -25+95 °C, depending on cable quality           Cables         Cable dentification         616           Cable trype         1 (PVC)           Approval (cable)         CE conform           Cable trype         1 (PVC)           Approval (cable)         CE conform           Cable trype         1 (PVC)           Approval (cable)         CE conform           Resistor (core)         max. 26 O/km (20 °C)           Single wise Ø (core)         0.2 mm           Octoristruction (core)         24 + 0.2 mm (multi-strand wire class 5)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material property (vire isolation)	
Switch off peak         max. 55 V           LED display         (yellow)           Locking of ports         M3MM12x1 mm (recommended torque 0.40.6 km)           Protection         IP66K, IP67 inserted and tightened (EN 60529)           Housing         Black plastic (gray on request)           Switch off delay time         max. 20 ms           General date           Temperature range         -2585 °C, depending on cable quality           Cable depth (faction)         616           Cable Type         1 (PVC)           Approval (cable)         CE conform           Cable weight (g/m)         61.6 g           Metarrial (vire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3x · 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material viver isolation         CPC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         3 wires twisted           Shield         no      <	
LED display	
Locking of ports   M3/M12×1 mm (recommended torque 0.4/0.6 Nm)	
Protection         IP66K, IP67 inserted and tightened (EN 60529)           Housing         Black plastic (gray on request)           Switch off delay time         max. 20 ms           General data         Temperature range         -25+85 °C, depending on cable quality           Cables         Cable dentification         616           Cable Type         1 (PVC)           Approval (cable)         CE conform           Cable weight [g/m]         61.6 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3 x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ±5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bh numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shore hardness (gacket)         PVC           Material property (gacket)         CFC, cadm	
Black plastic (gray on request)	
Switch off delay time         max. 20 ms           General data           Temperature range         -25+85 °C, depending on cable quality           Cables           Cable Identification         616           Cable Identification         616           Cable Type         1 (PVC)           Approval (cable)         CE conform           Cable weight [g/m]         61.6 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)	
General data           Temperature range         -25+85 °C, depending on cable quality           Cables           Cable identification         616           Cable Type         1 (PVC)           Approval (cable)         CE conform           Cable weight [g/m]         61.6 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3s. 0.75 mm²           AWG         similar to AWG 18           Material property (wire isolation)         PVC           Material property (wire isolation)         CFC., cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/mumbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         OE*C*, cadmium-, silicone- and lead-free           <	
Temperature range         -25+85 °C, depending on cable quality           Cable identification         616           Cable (Jype)         1 (PVC)           Approval (cable)         CE conform           Cable weight [g/m]         61,6 g           Material (wire)         Cu wire, bare           Pesistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24× 0.2 mm (multi-strand wire class 5)           Diameter (core)         3x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (packet)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ± 5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         black </td <td></td>	
Cables           Cable identification         616           Cable Type         1 (PVC)           Approval (cable)         CE conform           Cable weight [g/m]         61.6 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3 × 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material (wire isolation)         PVC           Material property (wire isolation)         43 ±5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ±5 A           Outer-Ø (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ±5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         black	
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Cable weight [g/m]         61,6 g           Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24 × 0.2 mm (multi-strand wire class 5)           Diameter (core)         3x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ±5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ±5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         300/500 V AC           Cet voltage         3000 V AC           Current load capacity         to DI	
Material (wire)         Cu wire, bare           Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24x 0.2 mm (multi-strand wire class 5)           Diameter (core)         3x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ±5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ±5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         5.9 mm ±5%           Color (jacket)         black           chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         300/500 V AC           Test voltage         3000 V AC           Current load capacity         to DI	
Resistor (core)         max. 26 Ω/km (20 °C)           Single wire Ø (core)         0.2 mm           Construction (core)         24× 0.2 mm (multi-strand wire class 5)           Diameter (core)         3× 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ± 5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         5.9 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         300/500 V AC           Test voltage         3000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)	
Single wire Ø (core)         0.2 mm           Construction (core)         24 x 0.2 mm (multi-strand wire class 5)           Diameter (core)         3 x 0.75 mm²           AWG         similar to AWG 18           Material (wire isolation)         PVC           Material property (wire isolation)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (wire isolation)         43 ± 5 D           Wire-Ø incl. isolation         1.8 mm ±5%           Color/numbering of wires         bk numbered, gnye longitudinally striped           Stranding combination         3 wires twisted           Shield         no           Material (jacket)         PVC           Material property (jacket)         CFC-, cadmium-, silicone- and lead-free           Shore hardness (jacket)         80 ±5 A           Outer-Ø (jacket)         5.9 mm ±5%           Color (jacket)         black           Chemical resistance         good resistance to oil, gasoline and chemicals           Nominal voltage         300/500 V AC           Test voltage         3000 V AC           Current load capacity         to DIN VDE 0298-4           Temperature range (fixed)         -30+70 °C           Temperature range (mobile)         -5+70 °C	
Construction (core) 24× 0.2 mm (multi-strand wire class 5)  Diameter (core) 3× 0.75 mm²  AWG similar to AWG 18  Material (wire isolation) PVC  Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 43 ±5 D  Wire-Ø incl. isolation 1.8 mm ±5%  Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 80 ±5 A  Cuter-Ø (jacket) 5.9 mm ±5%  Color (jacket) black  Chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -5+70 °C  Temperature range (mobile) -5+70 °C	
Diameter (core) 3× 0.75 mm²  AWG similar to AWG 18  Material (wire isolation) PVC  Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 43 ±5 D  Wire-Ø incl. isolation 1.8 mm ±5%  Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 80 ±5 A  Color (jacket) 5.9 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -5+70 °C  Temperature range (mobile) -5+70 °C	
AWG similar to AWG 18  Material (wire isolation) PVC  Material property (wire isolation) CFC-, cadmium-, silicone- and lead-free  Shore hardness (wire isolation) 43 ±5 D  Wire-Ø incl. isolation 1.8 mm ±5%  Color/numbering of wires bk numbered, gnye longitudinally striped  Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 80 ±5 A  Outer-Ø (jacket) 5.9 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Material (wire isolation)       PVC         Material property (wire isolation)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (wire isolation)       43 ±5 D         Wire-Ø incl. isolation       1.8 mm ±5%         Color/numbering of wires       bk numbered, gnye longitudinally striped         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       80 ±5 A         Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Material property (wire isolation)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (wire isolation)       43 ±5 D         Wire-Ø incl. isolation       1.8 mm ±5%         Color/numbering of wires       bk numbered, gnye longitudinally striped         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       80 ±5 A         Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Shore hardness (wire isolation)  Wire-Ø incl. isolation  1.8 mm ±5%  Color/numbering of wires  bk numbered, gnye longitudinally striped  Stranding combination  3 wires twisted  Thield  no  Material (jacket)  Material property (jacket)  Shore hardness (jacket)  Outer-Ø (jacket)  Color (jacket)  Color (jacket)  Diack  Chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  3000 V AC  Current load capacity  Temperature range (fixed)  7-5+70 °C  Temperature range (mobile)  1.8 mm ±5%  Dongitudinally striped  1.8 mm ±5%  CFC-, cadmium-, silicone- and lead-free  80 ±5 A  5.9 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  3000 V AC  Temperature range (fixed)  -30+70 °C	
Wire-Ø incl. isolation       1.8 mm ±5%         Color/numbering of wires       bk numbered, gnye longitudinally striped         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       80 ±5 A         Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Color/numbering of wires       bk numbered, gnye longitudinally striped         Stranding combination       3 wires twisted         Shield       no         Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       80 ±5 A         Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Stranding combination 3 wires twisted  Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 80 ± 5 A  Outer-Ø (jacket) 5.9 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Shield no  Material (jacket) PVC  Material property (jacket) CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket) 80 ±5 A  Outer-Ø (jacket) 5.9 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Material (jacket)       PVC         Material property (jacket)       CFC-, cadmium-, silicone- and lead-free         Shore hardness (jacket)       80 ±5 A         Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Material property (jacket)  CFC-, cadmium-, silicone- and lead-free  Shore hardness (jacket)  80 ±5 A  Outer-Ø (jacket)  5.9 mm ±5%  Color (jacket)  black  chemical resistance  good resistance to oil, gasoline and chemicals  Nominal voltage  300/500 V AC  Test voltage  3000 V AC  Current load capacity  to DIN VDE 0298-4  Temperature range (fixed)  -30+70 °C  Temperature range (mobile)  -5+70 °C	
Shore hardness (jacket) 80 ±5 A  Outer-Ø (jacket) 5.9 mm ±5%  Color (jacket) black  chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Outer-Ø (jacket)       5.9 mm ±5%         Color (jacket)       black         chemical resistance       good resistance to oil, gasoline and chemicals         Nominal voltage       300/500 V AC         Test voltage       3000 V AC         Current load capacity       to DIN VDE 0298-4         Temperature range (fixed)       -30+70 °C         Temperature range (mobile)       -5+70 °C	
Color (jacket) black chemical resistance good resistance to oil, gasoline and chemicals  Nominal voltage 300/500 V AC  Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
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Test voltage 3000 V AC  Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Current load capacity to DIN VDE 0298-4  Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Temperature range (fixed) -30+70 °C  Temperature range (mobile) -5+70 °C	
Temperature range (mobile) -5+70 °C	
Bend radius (fixed) 5× outer Ø	
Bend radius (moving) 10× outer Ø	
Product article number of manufacturer 7000-41021-6160100	
Cable length 1 m	