

## M12 male 0° A-cod. / MSUD valve plug B-10mm

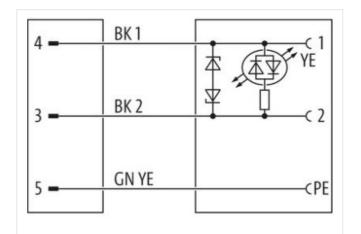
PVC 3x0.75 gy 0.6m

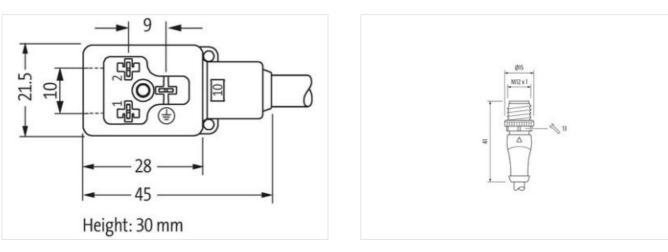
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



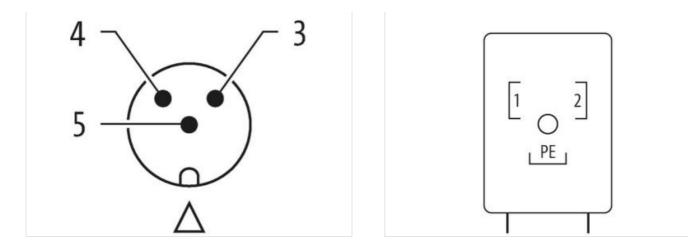






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Product may differ from Image



Cable length	0,6 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal $\emptyset$ )	10 mm
Coding	A
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Family construction form	MSUD B
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060312
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879147934
Packaging unit	1
Electrical data	
Capacity CX	20 ms
Electrical data   Supply	

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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
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Additional suppressor	Z-Diode
Mechanical data   Material data	
Coating locking	Nickeled
Locking screw coating	verzinkt
Color housing	black
Material housing	Plastic
Locking material	Zinc die-casting
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 Conformity	depending on cable quality
Additional condition temperature range	depending on cable quality
Additional condition temperature range Conformity	
Additional condition temperature range Conformity Product standard Installation   Cable	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Additional condition temperature range Conformity Product standard Installation   Cable Cable identification	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216
Additional condition temperature range Conformity Product standard Installation   Cable Cable identification Cable Type	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black)
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray 1
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray 1 3 wires twisted
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray 1 3 wires twisted
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket	depending on cable quality DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 216 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m PVC
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter insulation	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter insulation         Outer diameter tolerance core insulation	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm         ± 5 %
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter insulation         Outer diameter tolerance core insulation         Shore hardness wire insulation	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm         ± 5 %         43 ± 5 Shore D
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation         Material properties wire insulation	depending on cable quality           DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)           216           1           white (isolation black)           gray           1           3 wires twisted           black 1, black 2, green-yellow           63.8 g/m           PVC           80 ± 5 Shore A           lead-free, cadmium-free, CFC-free, silicone-free           5,9 mm           ± 5 %           PVC           3           1.8 mm           ± 5 %           43 ± 5 Shore D           good machinability
Additional condition temperature range         Conformity         Product standard         Installation   Cable         Cable identification         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)         Tolerance outer diameter (sheath)         Material wire insulation         Amount wires         Outer diameter tolerance core insulation         Shore hardness wire insulation	depending on cable quality         DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)         216         1         white (isolation black)         gray         1         3 wires twisted         black 1, black 2, green-yellow         63,8 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3         1,8 mm         ± 5 %         43 ± 5 Shore D

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Amount strands (wire)	24
Diameter of single wires	0,2 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
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
Max. rated voltage power (conductor - ground)	300 V
Max. rated voltage power (conductor - conductor)	500 V
Power frequency withstand voltage power (wire - jacket)	3 kV @ 60 s
AC withstand voltage power (wire - wire)	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	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
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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