

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

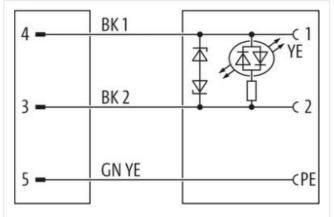
PVC 3x0.75 bk 2m

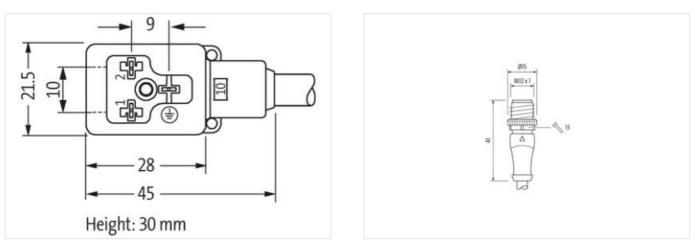
Form B (10 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



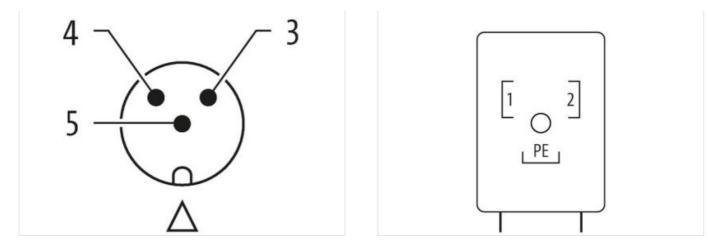






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Product may differ from Image



Cable length	2 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	4048879147668
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	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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
Product standard Installation   Cable	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD)
	DIN EN 61076-2-101 (M12), DIN EN 175301-803 (MSUD) 616
Installation   Cable	
Installation   Cable Cable identification	616
Installation   Cable Cable identification Cable Type	616 1
Installation   Cable Cable identification Cable Type Printing color of wire insulation	616 1 white (isolation black)
Installation   Cable Cable identification Cable Type Printing color of wire insulation Jacket Color	616 1 white (isolation black) black
Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding	616 1 white (isolation black) black 1
Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding	616       1       white (isolation black)       black       1       3 wires twisted
Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow
Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m
Installation   Cable         Cable identification         Cable Type         Printing color of wire insulation         Jacket Color         Amount stranding         Stranding         wire arrangement         Cable weigth         Material jacket	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC
Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacket	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A
Installation   Cable         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)	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free
Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm
Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %
Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulation	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC
Installation   CableCable identificationCable TypePrinting color of wire insulationJacket ColorAmount strandingStrandingwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wires	616         1         white (isolation black)         black         1         3 wires twisted         black 1, black 2, green-yellow         61,6 g/m         PVC         80 ± 5 Shore A         lead-free, cadmium-free, CFC-free, silicone-free         5,9 mm         ± 5 %         PVC         3

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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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   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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