

## M12 male 0° A-cod. / MSUD valve plug BI-11mm

PVC 3x0.75 gy 0.3m

**MSUD** 

Form BI (11 mm) - M12, male straight 24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

LED and suppression

Further cable lengths on request.

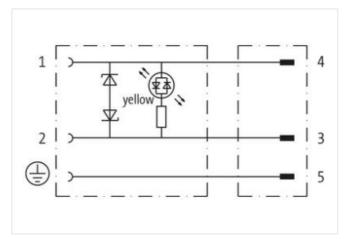
Plastic housings with good resistance against chemicals and oils.

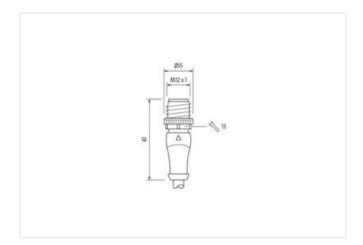
The resistance to aggressive media should be individually tested for your application. Further details on request.

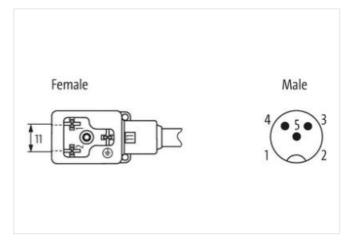
## **Link to Product**

## Illustration



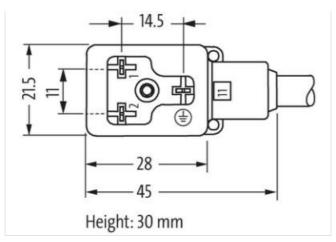








stay connected



Product may differ from Image



Cable length	0,3 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD
Thread	M3
No. of poles	3
Degree of protection (EN IEC 60529)	IP67
Side 2	
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
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	4048879149211
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	



stay connected

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
Pollution Degree	3
Rated surge voltage	0,8 kV
Mechanical data   Material data	
Color housing	black
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	<b>Attention:</b> 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 C1070 0 101 (M10): DIN EN 175001 000 (Martilate dise)
	DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Installation   Cable	DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Installation   Cable	
Installation   Cable wire arrangement	black 1, black 2, green-yellow
Installation   Cable wire arrangement Cable identification	
Installation   Cable wire arrangement Cable identification Cable Type	black 1, black 2, green-yellow 216 1
Installation   Cable wire arrangement Cable identification	black 1, black 2, green-yellow 216 1 white (isolation black)
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color	black 1, black 2, green-yellow 216 1
installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation	black 1, black 2, green-yellow 216 1 white (isolation black) gray
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding	black 1, black 2, green-yellow 216 1 white (isolation black) gray 1
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding	black 1, black 2, green-yellow 216  1 white (isolation black) gray 1 3 wires twisted
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement	black 1, black 2, green-yellow 216 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow
installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth	black 1, black 2, green-yellow 216 1 white (isolation black) gray 1 3 wires twisted black 1, black 2, green-yellow 63,8 g/m
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket	black 1, black 2, green-yellow 216  1  white (isolation black)  gray  1  3 wires twisted  black 1, black 2, green-yellow 63,8 g/m  PVC
Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	black 1, black 2, green-yellow 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
wire arrangement 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)	black 1, black 2, green-yellow  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
Installation   Cable wire arrangement 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)	black 1, black 2, green-yellow  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
Installation   Cable wire arrangement 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)	black 1, black 2, green-yellow  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 %
Installation   Cable wire arrangement 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	black 1, black 2, green-yellow  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
Installation   Cable wire arrangement 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	black 1, black 2, green-yellow  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
Installation   Cable wire arrangement 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	black 1, black 2, green-yellow 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
wire arrangement 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	black 1, black 2, green-yellow 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 %
wire arrangement 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	black 1, black 2, green-yellow 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



Printing color of wire insulation	white (isolation black)
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
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	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