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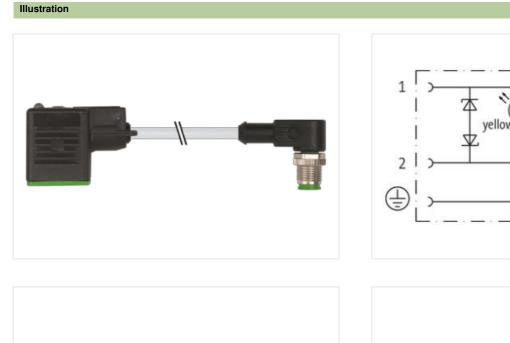
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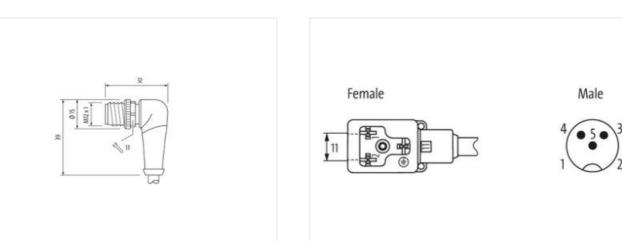
M12 male 90° A-cod. / MSUD valve plug BI-11mm

PVC 3x0.75 gy 1m

MSUD Form BI (11 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





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Product may differ from Image



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-8.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.2.0 27060312 ECLASS-1.2.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148382 Packaging unit 1 Ecterrical data 20 ms		
Injhening torque 0.4 Nm Family construction form MSUD BI 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 Ø) 10 mm Coding A No. of poles 3 Degree of protection (EN IEC 60529) IP67 Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-8.0 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ETIM-5.0 EC001855	, , , , , , , , , , , , , , , , , , ,	1 m
Family construction form MSUD BI Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Side 2	Side 1	
Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) IP67 Side 2	Tightening torque	0,4 Nm
No. of poles 3 Degree of protection (EN IEC 60529) IP67 Side 2	Family construction form	MSUD BI
Degree of protection (EN IEC 60529) IP67 Side 2	Thread	M3
Side 2 Tightening torque 0.6 Nm Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data 27279218 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27060312 ECLASS-8.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-13.0 EC001865 customs tariff number 85444280 GTIN 4048879148382 Packaging unit 1 Electrical data 1 Electrical data	No. of poles	3
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Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 ECLASS-6.1 27279218 ECLASS-6.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.2 27060312 ECLASS-1.2 27060312 ETIM-5.0 ECO11855 customs tariff number 85444290 GTIN 4048879148382 Packaging unit 1 Electrical data 1 Electrical data 1	Side 2	
Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148382 Packaging unit 1 Electrical data 20 ms	Tightening torque	0,6 Nm
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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-8.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.2.0 27060312 ECLASS-1.2.0 27060312 ECLASS-1.1 27060312 ECLASS-1.2.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148382 Packaging unit 1 Eceptrical data 20 ms	•	A
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customs tariff number 8544290 GTIN 4048879148382 Packaging unit 1 Electrical data 20 ms	ECLASS-12.0	27060312
GTIN 4048879148382 Packaging unit 1 Electrical data 20 ms	ETIM-5.0	EC001855
Packaging unit 1 Electrical data Capacity CX 20 ms		85444290
Electrical data Capacity CX 20 ms		4048879148382
Capacity CX 20 ms	Packaging unit	1
	Electrical data	
Electrical data Supply	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
Current consumption max.	12 mA
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	
	-25 ℃
Operating temperature min. Operating temperature max.	-25°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 (Ventilstecker)
Installation Cable	
Cable identification	216
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	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
	3
Amount wires	
Amount wires Outer diameter insulation	1,8 mm
Outer diameter insulation	1,8 mm
Outer diameter insulation Outer diameter tolerance core insulation	1,8 mm ± 5 %
Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	1,8 mm ± 5 % 43 ± 5 Shore D

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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 ²
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
	3 kV @ 60 s -30 °C
jacket)	-
jacket) Min. operating temperature (static)	-30 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed)	-30 °C 70 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic)	-30 °C 70 °C -5 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic)	-30 °C 70 °C -5 °C 70 °C
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance	-30 °C -30 °C -5 °C -5 °C 70 °C UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance	-30 °C 70 °C -5 °C 70 °C UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Good, application-related testing
jacket) Min. operating temperature (static) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Flame resistance chemical resistance Gasoline resistance	-30 °C 70 °C -5 °C 70 °C UL 1581 § 1090 IEC 60332-2-2 UL 1581 § 1100 FT2 Good, application-related testing Good, application-related testing

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