

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

PVC 3x0.75 bk 0.6m

MSUD

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

LED and suppression

Further cable lengths on request.

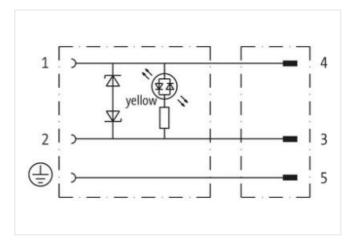
Plastic housings with good resistance against chemicals and oils.

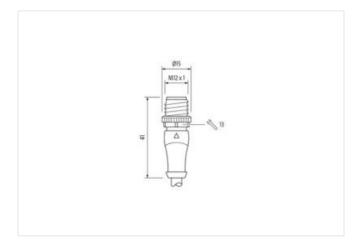
The resistance to aggressive media should be individually tested for your application. Further details on request.

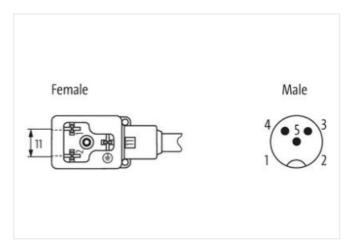
Link to Product

Illustration



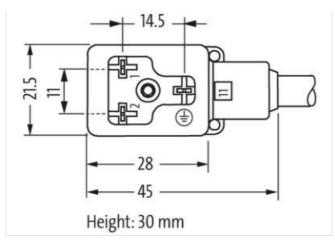








stay connected



Product may differ from Image



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 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial date ECLASS-6.0 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290	Cable length	0,6 m
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 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 27279218 ECLASS 6.1 27279218 ECLASS 8.0 27279218 ECLASS 8.0 27279218 ECLASS 9.0 27060312 ECLASS 1.0.1 27060312 ECLASS 1.1.1 27060312 ECLASS 1.2.0 27060312 ECLASS 1.5.0 EC001855 customs tariff number 85444290 GTIN 4048879149931 Packaging unit 1 Electrical data Capacity CX	Side 1	
Thread M3 No. of poles 3 Degree of protection (EN IEC 60529) 1967 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 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-9.0 2726918 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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Tightening torque	0,4 Nm
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 Width across flats SW13 Degree of protection (EN IEC 60529) IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 277060312 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.5 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECON1855 Counters tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Family construction form	MSUD
Degree of protection (EN IEC 60529) IP67 Side 2 Tightening torque 0,6 Mm 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-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 2760312 ECLASS-9.0 2760312 ECLASS-10.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 EC001855 Usustoms tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	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 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-11.1 27060312 ECLASS-11.2 27060312 ECLASS-12.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 4040879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	No. of poles	3
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 ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.0 ECLASS-1.0 27060312 ECLASS-1.0 ECLASS-1.0 27060312 ECLASS-1.0 ECLASS-1.0 27060312 ECLASS-1.0 ECLASS-1.0 ECO01855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Eclectrical data Eclectrical data Eclectrical data Expression Suppose the	Degree of protection (EN IEC 60529)	IP67
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 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27260312 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.0 2760312 ECLASS-1.1 27060312 ECLASS-1.2 27060312 ECLASS-1.1 2706	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 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 EC01855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Tightening torque	0,6 Nm
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 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Family construction form	M12
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Thread	M12 x 1
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	suitable for corrugated tube (internal Ø)	10 mm
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Coding	A
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	No. of poles	3
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Width across flats	SW13
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Degree of protection (EN IEC 60529)	IP67
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	Commercial data	
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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-6.0	27279218
ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC01855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-6.1	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 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-7.0	27279218
ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-9.0	27060312
ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-10.1	27060312
ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-11.1	27060312
customs tariff number 85444290 GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ECLASS-12.0	27060312
GTIN 4048879148931 Packaging unit 1 Electrical data Capacity CX 20 ms	ETIM-5.0	EC001855
Packaging unit 1 Electrical data Capacity CX 20 ms	customs tariff number	85444290
Electrical data Capacity CX 20 ms	GTIN	4048879148931
Capacity CX 20 ms	Packaging unit	1
	Electrical data	
Electrical data Supply	Capacity CX	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	<u>-</u>
Mounting method	inserted, screwed
-	iliserteu, screweu
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 (Ventilstecker)
Installation Cable	
Cable identification	616
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	61,6 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
Amount wires	3
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

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-20



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
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-5 ℃
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