

## M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PVC 3x0.75 ye 2.5m

**MSUD** 

Form CI (9.4 mm) - M12, male straight 24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

LED and suppression

Further cable lengths on request.

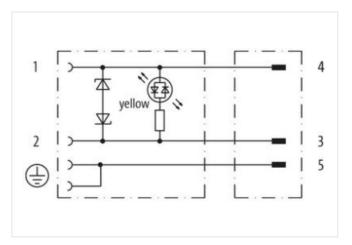
Plastic housings with good resistance against chemicals and oils.

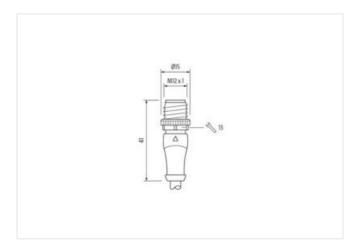
The resistance to aggressive media should be individually tested for your application. Further details on request.

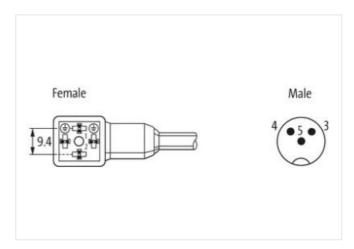
## **Link to Product**

## Illustration









Height: 25 mm



- 15.5 - 35.5

Product may differ from Image



Family construction form         MSUD CI           Thread         M3           No. of poles         4           Degree of protection (EN IEC 60529)         IP67           Side 2           Trightening 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           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           ECLASS-12.0         27060312           ECLASS-10.1         4048879147156           Packaging unit         1           Electrical data	Cable length	2,5 m
Family construction form MSUD CI Thread M3 No. of poles 4 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-6.1 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-8.0 27279218 ECLASS-1.1 27060312 ECLASS-1.1 270	Side 1	
Thread         M3           No. of poles         4           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         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1.1         27060312           ECLASS-1.2.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECTIMS-9.0         ECOINSS5           Customs tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	Tightening torque	0,4 Nm
No. of poles 4 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 O) 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-10.1 27060312	Family construction form	MSUD CI
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 20)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial date         CCC           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         277060312           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECOMBST           ECLASS-12.0         ECOMBST           ECLASS-10.1         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         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-9.0         27279218           ECLASS-9.0         27060312           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	No. of poles	4
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  With across flats SW13  Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27279218  ECLASS-9.0 27060312  ECLASS-1.1 27060312  ECLASS-1.1.1 27060312  ECLASS-1.2.0 27060312  ECLASS-1.2.0 27060312  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879147156  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	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  With 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-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.0 ECUASS-1.1 27060312  ECLASS-1.0 ECUASS-1.1 27060312  ECLASS-1.0 ECUASS-1.1 27060312  ECLASS-1.1 4048479147156  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	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           ECLASS-12.0         27060312           ECLASS-10         ECO1855           customs tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         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-6.1         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           ECLASS-12.0         27060312           ECLASS-12.0         4048879147156           Customs tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         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-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECIASS-12.0         27060312           ECIASS-11.1         27060312           ECIASS-12.0         4048079147156           Coustoms tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data         Drop-out delay time max.         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-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-10.1 27060312 EC	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           ECIMS-5.0         EC001855           customs tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	Coding	A
Degree of protection (EN IEC 60529)   IP67	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         4048879147156           Packaging unit         1           Electrical data         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-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 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 ECLASS-14.0 EC01855 customs tariff number 85444290 GTIN 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms	Commercial data	
ECLASS-7.0 27279218  ECLASS-8.0 27060312  ECLASS-10.1 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879147156  Packaging unit 1  Electrical data  Drop-out delay time max. 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 EC001855 customs tariff number 85444290 GTIN 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 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 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 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 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879147156 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms	ECLASS-9.0	27060312
ECLASS-12.0 27060312  ETIM-5.0 EC001855 customs tariff number 85444290  GTIN 4048879147156  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	ECLASS-10.1	27060312
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	ECLASS-11.1	27060312
customs tariff number 85444290 GTIN 4048879147156  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	ECLASS-12.0	27060312
GTIN         4048879147156           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	ETIM-5.0	EC001855
Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	customs tariff number	85444290
Electrical data  Drop-out delay time max. 20 ms	GTIN	4048879147156
Drop-out delay time max. 20 ms	Packaging unit	1
	Electrical data	
Electrical data   Supply	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	
·	blast.
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	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	
wire arrangement	black 1, black 2, green-yellow
Cable identification	016
Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
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
Amount wires	3
Outer diameter insulation	1,8 mm
	±5%
Outer diameter tolerance core insulation	± 5 /0
Outer diameter tolerance core insulation Shore hardness wire insulation	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	IEC 60332-2-2   UL 1581 § 1100 FT2   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