

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

PVC 3x0.75 bk 1m

**MSUD** 

Form CI (9.4 mm) - M12, male straight

110 V AC/DC ±10%

LED and suppression

Further cable lengths on request.

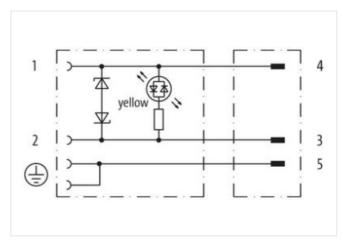
Plastic housings with good resistance against chemicals and oils.

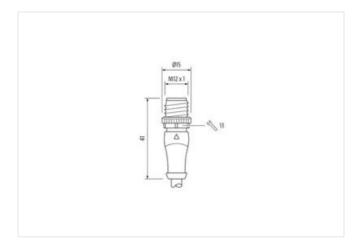
The resistance to aggressive media should be individually tested for your application. Further details on request.

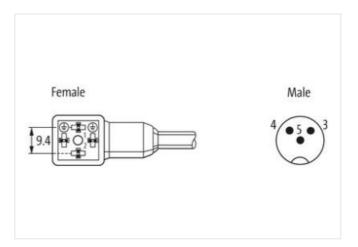
## **Link to Product**

## Illustration



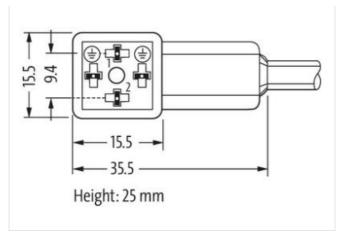








stay connected



Product may differ from Image









Family construction form         M12           Thread         M3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           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-1.2.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         494897636414           Packaging unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC         110 V           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Cable length	1 m
Family construction form M12 Thread M3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67  Side 2  Tightening torque 0,6 Nm Thread M12 x 1 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-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.2 0 27060312 ECLASS-1.1 1 27060312 ECLASS-1.2 0 27060312 ECLASS-1.3 1 27060312 ECLASS-1.4 27060312 ECLASS-1.5 27060312	Side 1	
Thread         M3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2           Injektening torque         0,6 Nm           Thread         M12 x 1           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECHASS-10.1         27060312           ECLASS-10.1         27060312           ECLASS-10.1         27060312           ECLASS-10.0         ECO18ES5           ECLASS-10.0         ECO18ES5           ECLASS-10.0         ECO18ES5           ECLASS-10.0         ECO18ES5           ECLASS-10.0         ECC18ES-10.0         ECC18ES-10.0           ECLASS-10.0         ECC18ES-10.0         ECC18ES-10.0         ECC1	Tightening torque	0,4 Nm
Side 2	Family construction form	M12
Degree of protection (EN IEC 60529)         IP67           Side 2         If planting torque         0,6 Nm           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO1855           ECLASS-12.0         ECO1855           ECLASS-10.1         4048879636414           Packaging unit         1           Electrical data           Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC         110 V           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Thread	M3
Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060312           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         4048879636414           Packaging unit         1           Electrical data         1           Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC min.         99 V           Operating voltage AC min.         121 V	Width across flats	SW13
Tightening torque 0,6 Nm  Thread M12 x 1 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-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-10.1 27060312	Degree of protection (EN IEC 60529)	IP67
Thread	Side 2	
Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218         27279218           ECLASS-7.0         27279218         27279218           ECLASS-8.0         27279218         27060312           ECLASS-9.0         27060312         27060312           ECLASS-10.1         27060312         27060312           ECLASS-12.0         27060312         27060312           ECIMS-5.10         EC001855         2010000           Customs tariff number         85444290         371N           GTIN         4048879636414         4048879636414           Packaging unit         1         1           Electrical data         20 ms         20 ms           Electrical data   Supply         20 porating voltage AC         110 V           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Tightening torque	0,6 Nm
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 tarriff number         85444290           GTIN         4048879636414           Packaging unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply         Superating voltage AC min.         99 V           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Thread	M12 x 1
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-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 10000000000000000000000000000000000	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-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 ECO01855 customs tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data  Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Commercial data	
ECLASS-7.0 27279218 ECLASS-8.0 27760312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 ECO1855 Customs tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-6.0	27279218
ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECUASS-12.0	ECLASS-6.1	27279218
ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 coustoms tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	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 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-9.0	27060312
ECLASS-12.0 27060312 ETIM-5.0 EC001855  customs tariff number 85444290 GTIN 4048879636414  Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	ECLASS-10.1	27060312
ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-11.1	27060312
Customs tariff number 85444290 GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	ECLASS-12.0	27060312
GTIN 4048879636414 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ETIM-5.0	EC001855
Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	customs tariff number	85444290
Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	GTIN	4048879636414
Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Packaging unit	1
Electrical data   Supply  Operating voltage AC 110 V  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Electrical data	
Operating voltage AC 110 V Operating voltage AC min. 99 V Operating voltage AC max. 121 V	Capacity CX	20 ms
Operating voltage AC min. 99 V Operating voltage AC max. 121 V	Electrical data   Supply	
Operating voltage AC max. 121 V	Operating voltage AC	110 V
operating voltage no max.	Operating voltage AC min.	99 V
Operating voltage DC 110 V	Operating voltage AC max.	121 V
	Operating voltage DC	110 V



stay connected

Operating voltage DC min.	99 V
Operating voltage DC max.	121 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	2.5 kV
Material group (IEC 60664-1)	
Mechanical data   Material data	
·	
Locking screw coating	Nickeled
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	
•	Distant the connectors by suitable managers from machinical leads, a griby the years of cable ties
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
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
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
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

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: 2024-05-17



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