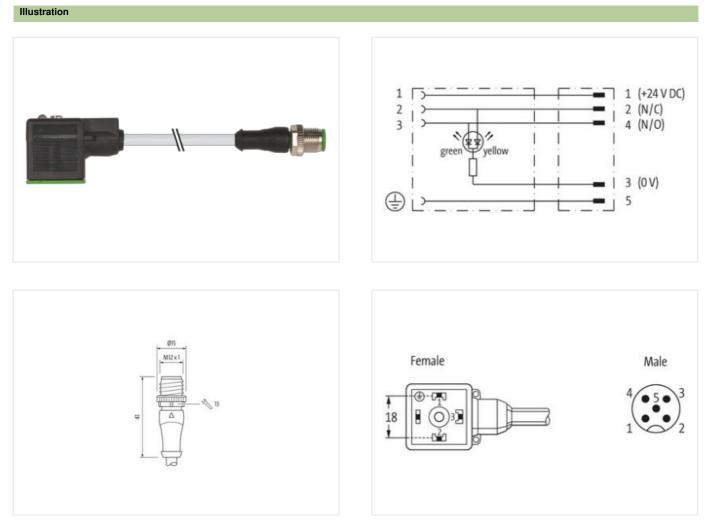


## M12 male 0° A-cod. / MSUD valve plug A-18mm

PUR 5x0.34 gy UL/CSA+robot+drag ch. 1.5m

MSUD Form A (18 mm) – M12, male straight 24 V DC ±25% LED (yellow/green) for pressure switches 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



Side 1       Tightening torque     0.4 Nm       Family construction form     MSUD       Thread     M3       Material     PUR       Dagree of protection (EN IEC 60529)     IP67       Side 2     Tightening torque       Differing torque     0.6 Nm       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degree of protection (EN IEC 60529)     P67       Commercial data     27279218       ECLASS 4.0     27279218       ECLASS 4.0     27279218       ECLASS 4.0     27279218       ECLASS 4.1.1     27060312       ECLASS 4.2.0     27060312       ECLASS 4.2.0     27060312       ECLASS 4.2.0     27060312       ETIM 5.0     EC001855       customs tariff number     85444290       Grints     4048879766517       Packaging unit     1       Electricial data Jappi <td< th=""><th></th><th></th></td<>		
Tightening torque0.4 NmFamily construction formMSUDThreadM3MaterialPURDegree of protection (EN IEC 60529)IP67Side 2Tightening torque0.6 NmFamily construction formM12ThreadM12 xsuitable for corrugated tube (internal 0)10 mmMaterialPBTWidth across flatsSW13Dogree of protection (EN IEC 60529)IP67Consercial data27279218ECLASS-6.027279218ECLASS-7.027279218ECLASS-8.027279218ECLASS-1.127060312ECLASS-1.1.127060312ECLASS-1.1.227060312ECLASS-1.1.327060312ECLASS-1.1.427060312ECLASS-1.1.56001825customs tariff number85444290customs tariff number85444290customs tariff number85444290Cortur dataEvertord dataEVERDECoperating voltage DC min.80 V200 V	Cable length	1,5 m
Family construction form     MSUD       Thread     M3       Material     PUR       Degree of protection (EN IEC 60529)     IP67       Side 2     T       Tiphtening torque     0.6 Nm       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP67       Commercial data     27279218       ECLASS-6.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-10.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     8544280       GTIN     404879765517       Packaging unit     1       Etertical data   Supply     1       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Side 1	
Thread     M3       Material     PUR       Degree of protection (EN IEC 60529)     IP67       Side 2	Tightening torque	0,4 Nm
Material     PUR       Degree of protection (EN IEC 60529)     IP67       Side 2     Perform       Tightening torque     0.6 Nm       Family construction form     M12       Thread     M12 × 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP67       Commercial data     ECLASS-6.0       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-11.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     EC001855       custass tariff number     8544290       GTIN     4048879766517       Packaging unit     1       Etertical data   Supply     1       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage D	Family construction form	MSUD
Degree of protection (EN IEC 60529)     IP67       Side 2     Prest       Tightening torque     0.6 Nm       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       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     27060311       ECLASS-10.1     27060312       ECLASS-10.2     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     8544290       GTIN     404887966517       Packaging unit     1       Etetrical data   Supply     1       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Thread	M3
Side 2Tightening torque0.6 NmFamily construction formM12ThreadM12 x 1suitable for corrugated tube (internal Ø)10 mmMaterialPBTWidth across flatsSW13Degree of protection (EN IEC 60529)IP67Commercial dataECLASS-6.027279218ECLASS-7.027279218ECLASS-7.027279218ECLASS-10.127060312ECLASS-10.127060312ECLASS-11.127060312ECLASS-12.027060312ECLASS-12.027060312ETIM-5.0EC001855customs tartiff number8544290GTIN40487976617Packaging unit1Electrical fals SuplyOperating voltage DC max.30 V	Material	PUR
Tightening torque     0.6 Nm       Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degre of protection (EN IEC 60529)     IP67       Commercial data     27279218       ECLASS -0.0     27279218       ECLASS -7.0     27279218       ECLASS -0.0     27279218       ECLASS -0.0     27279218       ECLASS -0.1     27060311       ECLASS -0.2     27060312       ECLASS -1.1     27060312       ETM-S.0     EC001855       customs tarift number     8544290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     1       Operating voltage DC max.     18 V       Operating voltage DC max.     30 V	Degree of protection (EN IEC 60529)	IP67
Family construction form     M12       Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP67       Commercial data     ECLASS-6.0       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIMS-0     ECO001855       customs tartiff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     1       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Side 2	
Thread     M12 x 1       suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       Width across flats     SW13       Degree of protection (EN IEC 60529)     IP67       Commercial data     ECLASS-6.0       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-12.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     1       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Tightening torque	0,6 Nm
suitable for corrugated tube (internal Ø)     10 mm       Material     PBT       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     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-13.1     27060312       ECLASS-14.0     27060312       ECLASS-15.0     EC01855       customs tariff number     85444290       GTIN     4048279766517       Packaging unit     1       Electrical data   Supply        Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Family construction form	M12
Material     PBT       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     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       ELectrical data   Suply     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Thread	M12 x 1
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     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	suitable for corrugated tube (internal Ø)	10 mm
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     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECIASS-12.0     27060312       ECIASS-12.0     27060312       CONTRACT     85444290       CONTRACT     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Material	PBT
Commercial data       ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-9.0     27060312       ECLASS-10.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ECLASS-13.1     27060312       ECLASS-14.1     27060312       ECLASS-15.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Width across flats	SW13
ECLASS-6.0     27279218       ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     1       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	Degree of protection (EN IEC 60529)	IP67
ECLASS-7.0     27279218       ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC     24 V       Operating voltage DC max.     30 V	Commercial data	
ECLASS-8.0     27279218       ECLASS-9.0     27060311       ECLASS-10.1     27060312       ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC01855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	ECLASS-6.0	27279218
ECLASS-9.0   27060311     ECLASS-10.1   27060312     ECLASS-11.1   27060312     ECLASS-12.0   27060312     ETIM-5.0   EC001855     customs tariff number   85444290     GTIN   4048879766517     Packaging unit   1     Electrical data   Supply   24 V     Operating voltage DC min.   18 V     Operating voltage DC max.   30 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     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	ECLASS-8.0	27279218
ECLASS-11.1     27060312       ECLASS-12.0     27060312       ETIM-5.0     EC001855       customs tariff number     85444290       GTIN     4048879766517       Packaging unit     1       Electrical data   Supply     24 V       Operating voltage DC min.     18 V       Operating voltage DC max.     30 V	ECLASS-9.0	27060311
ECLASS-12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879766517Packaging unit1Electrical data   SupplyOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 V	ECLASS-10.1	27060312
ETIM-5.0EC001855customs tariff number85444290GTIN4048879766517Packaging unit1Electrical data   Supply24 VOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 V	ECLASS-11.1	27060312
customs tariff number85444290GTIN4048879766517Packaging unit1Electrical data   SupplyOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 V	ECLASS-12.0	27060312
GTIN 4048879766517   Packaging unit 1   Electrical data   Supply 24 V   Operating voltage DC min. 18 V   Operating voltage DC max. 30 V	ETIM-5.0	EC001855
Packaging unit 1   Electrical data   Supply   Operating voltage DC 24 V   Operating voltage DC min. 18 V   Operating voltage DC max. 30 V	customs tariff number	85444290
Electrical data   Supply   Operating voltage DC 24 V   Operating voltage DC min. 18 V   Operating voltage DC max. 30 V	GTIN	4048879766517
Operating voltage DC 24 V   Operating voltage DC min. 18 V   Operating voltage DC max. 30 V	Packaging unit	1
Operating voltage DC min. 18 V   Operating voltage DC max. 30 V	Electrical data   Supply	
Operating voltage DC max. 30 V	Operating voltage DC	24 V
oportaing tomage bo max.	Operating voltage DC min.	18 V
Current operating per contact max. 4 A	Operating voltage DC max.	30 V
	Current operating per contact max.	4 A

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Current consumption max.	15 mA
Diagnostics	
Status indication LED	green, yellow
	groon, yonow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	safe-cover coated
Color housing	black
Material gasket	PUR
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted. screwed
Ŭ	
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.
Installation   Cable	
Cable identification	255
Cable Type	5
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Cable weigth	41,8 g/m
Material jacket	PUR
Shore hardness jacket	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	5 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	т 5 % РР
Amount wires	5
Outer diameter insulation	5 1,25 mm
	1,25 mm ± 5 %
Outer diameter tolerance core insulation	
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount atranda (mina)	42
Amount strands (wire)	
Diameter of single wires	0,1 mm
Diameter of single wires Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Diameter of single wires Conductor crosssection (wire) Material conductor wire	0,34 mm <sup>2</sup> Stranded copper wire, bare
Diameter of single wires Conductor crosssection (wire)	0,34 mm <sup>2</sup>

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Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	60 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min

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