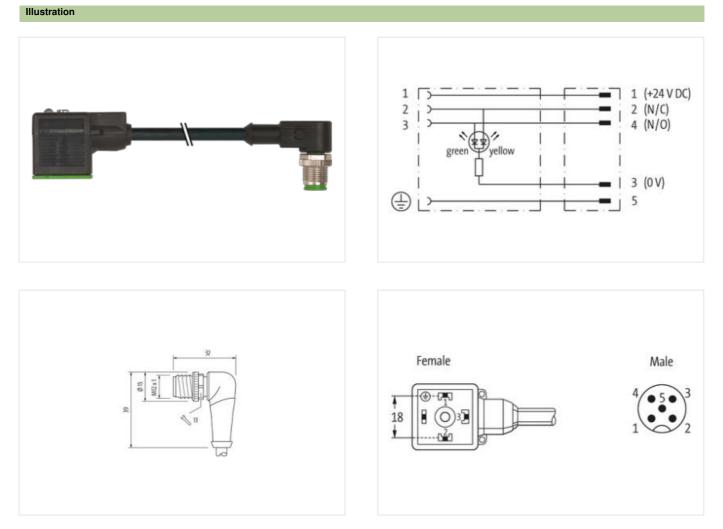


## M12 male 90° A-cod. / MSUD valve plug A-18mm

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

MSUD Form A (18 mm) – M12, male 90° 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



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         4048879610780           Packaging unit         1           Electrical data   Supply         S444290           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA		
Tiphtening torque         0.4 Nm           Family construction form         MSUD           Thread         M3           Degree of protection (EN IEC 60529)         IP66R.IP67           Side 2	Cable length	1,5 m
Family construction form         MSUD           Thread         M3           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2	Side 1	
Thread         M3           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Pamily construction form         M12           Thread         M12 × 1         Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0         27279218         ECLASS-6.1         27279218           ECLASS-6.0         27279218         ECLASS-8.0         27279218           ECLASS-8.0         27279218         ECLASS-8.0         27279218           ECLASS-8.0         27279218         ECLASS-8.0         27279218           ECLASS-8.0         27279218         ECLASS-8.0         27279218           ECLASS-8.0         27279218         ECLASS-8.0         27279218           ECLASS-1.1         27060312         ECLASS-1.1         27060312           ECLASS-1.1         27060312         ECLASS-1.2         27060312           ETIM-5.0         EC001655         201655         201655           customs tariff number         85444290         201655           Customs tariff number         85444290         201655           Customs tariff number         85444290         201655           Operating voltage DC         24 V         Operating voltage DC min.         18 V <td>Tightening torque</td> <td>0,4 Nm</td>	Tightening torque	0,4 Nm
Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           Packaging unit         1           Electroial data   Supply            Operating voltage DC         24 V           Operating voltage DC min.         18 V           O	Family construction form	MSUD
Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-1.2.0         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404879610780           Packaging unit         1           Electrical data   Supply         24 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current operating per contact max.         12 mA <td>Thread</td> <td>M3</td>	Thread	M3
Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27260312           ECLASS-8.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           Customs tariff number         85444290           GdTIN         404887610780           Packaging unit         1           Electrical data   Supply         18 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.	Degree of protection (EN IEC 60529)	IP66K, IP67
Family construction form         M12           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27260012           ECLASS-8.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	Side 2	
Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         E           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         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         4048879610780           Packaging unit         1           Electrical data   Supply            Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	Tightening torque	0,6 Nm
Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218         ECLASS-7.0         27279218           ECLASS-7.0         27279218         ECLASS-8.0         27279218           ECLASS-8.0         27279218         ECLASS-8.0         27279218           ECLASS-9.0         27060312         ECLASS-9.0         27060312           ECLASS-11.1         27060312         ECLASS-9.0         27060312           ECLASS-12.0         27060312         ECLASS-9.0         27060312           ETIM-5.0         EC001855         Customs tariff number         85444290           GTIN         4048879610780         Packaging unit         1           Electrical data   Suply         U         Operating voltage DC         24 V           Operating voltage DC min.         18 V         Operating voltage DC max.         30 V           Current operating per contact max.         4 A         Current consumption max.         12 mA	Family construction form	M12
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           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           Packaging unit         1           Electrical data   Suply            Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	Thread	M12 x 1
ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27260312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           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           Current operating per contact max.         4 A           Current consumption max.         12 mA	Degree of protection (EN IEC 60529)	IP66K, IP67
ECLASS-6.1         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           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           Packaging unit         1           Electrical data   Supply            Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	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           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879610780           Packaging unit         1           Electrical data   Supply         1           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	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         4048879610780           Packaging unit         1           Electrical data   Supply         S444290           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current consumption max.         12 mA	ECLASS-6.1	27279218
ECLASS-9.0         27060312           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         4048879610780           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           Current operating per contact max.         4 A           Current consumption max.         12 mA	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         4048879610780           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           Current operating per contact max.         4 A           Current consumption max.         12 mA	ECLASS-8.0	27279218
ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610780           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           Current operating per contact max.         4 A           Current consumption max.         12 mA	ECLASS-9.0	27060312
ECLASS-12.027060312ETIM-5.0EC001855customs tariff number85444290GTIN4048879610780Packaging unit1Electrical data   SupplyOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	ECLASS-10.1	27060312
ETIM-5.0EC001855customs tariff number85444290GTIN4048879610780Packaging unit1Electrical data   Supply24 VOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	ECLASS-11.1	27060312
customs tariff number85444290GTIN4048879610780Packaging unit1Electrical data   Supply24 VOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	ECLASS-12.0	27060312
GTIN4048879610780Packaging unit1Electrical data   Supply24 VOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	ETIM-5.0	EC001855
Packaging unit1Electrical data   SupplyOperating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	customs tariff number	85444290
Electrical data   Supply         Operating voltage DC       24 V         Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Current operating per contact max.       4 A         Current consumption max.       12 mA	GTIN	4048879610780
Operating voltage DC24 VOperating voltage DC min.18 VOperating voltage DC max.30 VCurrent operating per contact max.4 ACurrent consumption max.12 mA	Packaging unit	1
Operating voltage DC min.       18 V         Operating voltage DC max.       30 V         Current operating per contact max.       4 A         Current consumption max.       12 mA	Electrical data   Supply	
Operating voltage DC max.     30 V       Current operating per contact max.     4 A       Current consumption max.     12 mA		24 V
Current operating per contact max.     4 A       Current consumption max.     12 mA	Operating voltage DC min.	18 V
Current consumption max. 12 mA	Operating voltage DC max.	30 V
	Current operating per contact max.	4 A
Device protection   Electrical	Current consumption max.	12 mA
	Device protection   Electrical	

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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	
•	
Operating temperature min.	-25 °C 85 °C
Operating temperature max. 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	655
Cable Type	5
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
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) Material wire insulation	± 5 % PP
	5
Amount wires Outer diameter insulation	5 1.25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	74 ± 3 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
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



DIN EN ISO 4892-2 A UV resistance Flame resistance IEC 60332-2-2 | UL 1581 § 1100 FT2 | UL 1581 § 1090 Good, application-related testing chemical resistance 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 No. of bending cycles (C-track) 10 Mio. @ 25 °C No. of torsion cycles 1 Mio. Torsion speed 35 cycles/min Torsion stress ± 360 °/m

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