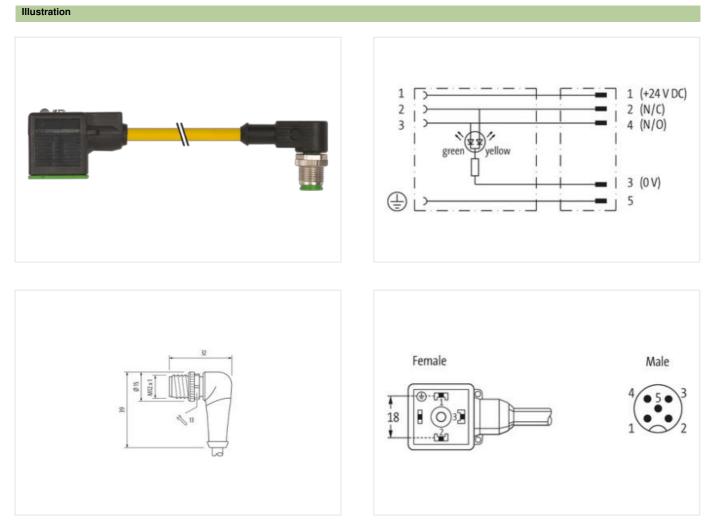


## M12 male 90° A-cod. / MSUD valve plug A-18mm

PVC 5x0.34 ye UL/CSA 0.3m

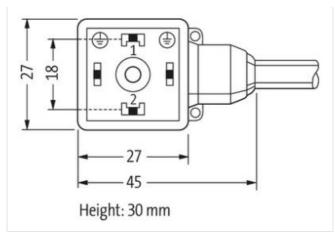
MSUD Form A (18 mm) – M12, male 90° 24 V DC ±25% LED (yellow/green) for pressure switches Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product



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Product may differ from Image



Side 1           Tightening torque         0.4 Nm           Family construction form         MSUD           Thread         M3           Degree of protection (EN EC 60529)         IP66K           Side 2         IP1000000000000000000000000000000000000		
Tightening torque         0.4 Nm           Family construction form         MSUD           Thread         M3           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2	Cable length	0,3 m
Family construction form         MSUD           Thread         M3           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         IP66K, IP67           Side family construction form         M12           Thread         M12 N1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         IP66K, IP67           Commercial data         IP272918           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27260312           ECLASS 9.0         27060312           ECLASS 9.0         27060312           ECLASS 9.10.1         27060312           ECLASS 9.10.1         27060312           ECLASS 9.10.1         27060312           ECLASS 9.10.1         E001855           customs taff number         85444290           GTIN         4048879610322           Packaging unit <t< td=""><td>Side 1</td><td></td></t<>	Side 1	
Thread         M3           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Panily construction form         M12           Thread         M12 X         M12           Degree of protection (EN IEC 60529)         IP66K, IP67         M12 X           Degree of protection (EN IEC 60529)         IP66K, IP67         M12 X           Commercial data         M12 X         M12 X           ECLASS 6.0         27279218         M12 X           ECLASS 6.1         27279218         M12 X           ECLASS 6.0         27279218         M12 X           ECLASS 8.0         27279218         M12 X           ECLASS 8.0         27279218         M12 X           ECLASS 9.0         27060312         M12 X           ECLASS 9.0         27060312         M12 X           ECLASS 9.0         27060312         M12 X           ECLASS 9.0         ECO01855         M12 X           customs tariff number         85444290         M14 X           GTIN         4048879610322         M14 X           Packaging unit         1         M14 X           Deperating voltage DC         24 V         M14 X           Operating voltage DC min.         18 V	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-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.1         27279218           ECLASS-8.0         27279218           ECLASS-8.1         27260312           ECLASS-8.0         27260312           ECLASS-1.1         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-13.1         27060312           ECLASS-14.1         404879610322           Packaging unit         1           Electrical datal Supply           Operating voltage DC	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-7.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-1.2         27060312           ECLASS-1.2.0         27060312           ECLASS-1.2.0         27060312           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879610322           Packaging unit         1           Electrical data [Supply	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         E           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         272060312           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-1.2         27060312           ECLASS-1.2         27060312           ECLASS-1.2         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           Packaging unit         1           Electrical data   Supply         1           Operating voltage DC         24 V           Operating voltage DC man.         30 V           Current consumption max.         4 A	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-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           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 onsumption max.         12 mA	Side 2	
Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218         ECLASS-7.0           ECLASS-7.0         27279218         ECLASS-8.0           ECLASS-8.0         27279218         ECLASS-9.0           ECLASS-9.0         27060312         ECLASS-1.1           ECLASS-1.1         27060312         ECLASS-1.1           ECLASS-1.1         27060312         ECLASS-1.1           ECLASS-1.2.0         27060312         ECLASS-1.1           ETIM-5.0         EC01855         Ecustomation and the status of the s	Tightening torque	0,6 Nm
Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         E           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1         27060312           EVELASS-1.2         27060312           EVELASS-1.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           Packaging unit         1           Electrical data   Supply         Poerating voltage DC         24 V           Operating voltage DC         24 V         Querant data   Supply           Operating voltage DC max.         30 V         30 V           Current operating per contact max.         4 A           Current consumptio	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           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           Packaging unit         1           Electrical data   Supply         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	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-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           Packaging unit         1           ELetrical data   Suply         24 V           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating per contact max.         4A           Current consumption max.         12 mA	Degree of protection (EN IEC 60529)	IP66K, 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         1           ECLASS-12.0         27060312           Curst stariff number         85444290           GUIN         4048879610322           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	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         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879610322         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	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         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879610322           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	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         4048879610322           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 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         4048879610322           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         4048879610322           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 number85444290GTIN4048879610322Packaging 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-10.1	27060312
ETIM-5.0EC001855customs tariff number85444290GTIN4048879610322Packaging 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 number85444290GTIN4048879610322Packaging 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
GTIN4048879610322Packaging 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	
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	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	4048879610322
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	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	Operating voltage DC	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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Additional condition protection degree	inserted, screwed
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
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	015
Cable Type	1
Jacket Color	vellow
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
iller	
	yes brown, black, blue, white, green-yellow
vire arrangement	
Cable weigth Naterial jacket	48,4 g/m PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Duter-diameter (jacket)	5.2 mm
Folerance outer diameter (sheath)	±5%
Aterial wire insulation	PVC
	5
Amount wires	5 1.25 mm
Duter diameter insulation	
Duter diameter tolerance core insulation	±5%
Shore hardness wire insulation	45 ± 5 Shore D good machinability
Material properties wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
0	
Amount strands (wire)	
Diameter of single wires	0,15 mm
Conductor crosssection (wire) Material conductor wire	0,34 mm <sup>2</sup> Stranded copper wire, bare
	Stranded copper wire, bare Strand class 5
Conductor type (wire)	
Nominal voltage AC max.	300 V to DIN VDE 0298-4
Current load capacity (standard)	
	4,5 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
Vin. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C

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Flame resistance

UL 1581 § 1100 FT2 | UL 1581 § 1090 | IEC 60332-2-2

chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter

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