

## MSUD double valve A-18mm with cable

PUR 4x0.75 ye 3m

Form A (18 mm) 24 V AC ±20% / DC ±25% LED and suppression Connection cable L = 110 mm Further cable lengths on request.

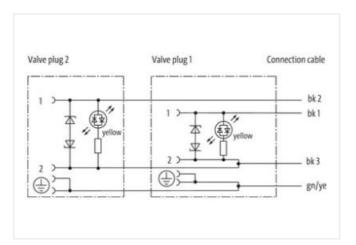
Plastic housings with good resistance against chemicals and oils.

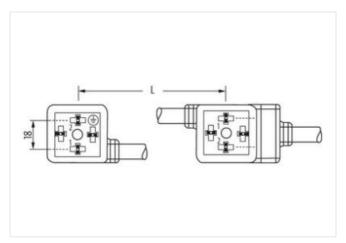
The resistance to aggressive media should be individually tested for your application. Further details on request.

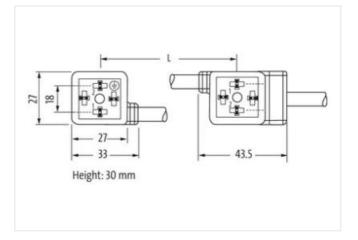
## **Link to Product**

## Illustration









Product may differ from Image



Cable length 3 m

Side 1

0,4 Nm Tightening torque



stay connected

Material	Thread	M3
Tightening torque         0.4 Nm           Thread         M3           Macrial         PST           Commercial data         PST           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 9.0         27090312           ECLASS 9.0         27090312           ECLASS 11.1         27090312           ECLASS 11.1         27090312           ECLASS 12.0         27090312           ECLASS 11.1         27090312           ECLASS 12.0         27090312           ECLASS 11.1         27090312           ECLASS 12.0         27090312           Eclectacled data (Secolary 1)	Material	PBT
President   Process   Pr	Side 2	
President   Process   Pr	Tightening torque	0.4 Nm
Material   PBT     Commercial data   Commercia		
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-11.2         27060312           ECLASS-12.0         28060312           ETIM-5.0         E0001855           customs tarilf number         69444290           GTIN         404879738917           Packaging unit         1           Electrical data         1           Electrical data         1           Popo out doily ime max.         20 ms           Electrical data   Supply         24 V           Operating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage AC max.         28,8 V           Operating voltage DC min.         18 V           Operating voltage DC min.         20 M           Current consumption max.         12 mA           Diagnostics           Status indication LED<		
ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27660312           ECLASS-1.1         27060312           ECLASS-1.1.         27060312           ECLASS-1.0.         27060312           ECLASS-1.0.         1           ECLASS-1.0.         27060312           ETIMS 0         ECOMBSS           customs tariff number         85444290           GTIN         4048079138017           Packaging unit         1           Electrical data         1           Perading voltage max.         20 ms           Electrical data   Supply         1           Operating voltage AC         24 V           Operating voltage AC max.         28 B V           Operating voltage AC max.         28 B V           Operating voltage DC max.         30 V           Cut-off peak voltage max.         30 V           Cut-off peak voltage max.         4 A           Cut-off peak voltage max.         12 mA           Diagnostics         1           Status indication LED         yellow           Device protection [Electrical         1           Degree of protection		07070040
ECLASS-7.0         27279218           ECLASS-8.0         27778218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.2         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECO01895           Louisons tarff umber         85444290           GTIN         4048879138017           Packaging unt         1           Electrical data           Drop out delay time max.           20 ms           Electrical data I Suppiy           Ceptating voltage AC           24 V           Operating voltage AC min.         19.2 V           Operating voltage AC max.         28.8 V           Operating voltage DC min.         18 V           Current operating per contact max.         4 A           Current operating nor max.         12 mA           Diagnostics <td< td=""><td></td><td></td></td<>		
ECLASS-8.0         27279218           ECLASS-9.0         2706012           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECO01885           customs tarilf number         85444290           GTIN         4048879138017           Packaging unit         1           Electrical data         Very Control of C		
ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001885           Loustoms tariff number         65444290           GTIN         4048879138017           Packaging unit         1           Electrical data           Urgo-out delay time max.           20 ms           Electrical data [Suppty           Uporating voltage AC           2 V           Operating voltage AC min.         19.2 V           Operating voltage AC max.         28.8 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-stif peak voltage max.         55 V           Cut-stif peak voltage max.         55 V           Cut-stif peak voltage max.         12 mA           Diagnostics           Status indicatin LED         yellow           Degree of protection (EN IEC 60529)         1867           Additional condition protection degree         3           Falued surge voltage         0.8 kV           Material group (		
ECLASS-10.1         27090312           ECLASS-12.0         27090312           ETIM-5.0         EC001855           customs tarill number         85444290           GTIN         4048879139017           Packaging unt         1           Electrical data         Dopp-out delay time max.           Dopp-out delay time max.         20 ms           Electrical data   Supply         Voperating voltage AC           Operating voltage AC         24 V           Operating voltage AC max.         28.8 V           Operating voltage AC max.         28.8 V           Operating voltage AC max.         28.8 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Cut-oft peak voltage max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         9 ellow           Degree of protection [Electrical		
ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECOISES           customs tariff number         85444290           GTIN         4048879138017           Packaging unit         1           Electrical data           Urgo ut delay time max.           2 0 ms           Electrical data [Supply           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC max.         28,8 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Degree of protection [ED geterical         yellow           Perge of protection [EN IEC 60529]           PGR         Additional condition protection degree         18 read surge voltage           Additional condition protection degree         3         14 read for a protection of the protectio		
ECLASS-12.0         27060312           ETIM-5.0         EC007855           customs tariff number         8544290           GTIN         4048879138017           Packaging unit         1           Electrical data         ************************************		
ETIM 5.0         EC001855           customs tariff number         85444290           GTIN         404879138017           Packaging unit         1           Electrical data         Verification of the properties of the		
customs tariff number         85444290           GTIN         4048879138017           Packaging unit         1           Electrical data         Use and the second of the se		
STIN   4048879138017   Packaging unit   1		
Packaging unit   1		
Electrical data  Drop-out delay time max. 20 ms  Electrical data   Suppty  Operating voltage AC 24 V  Operating voltage AC max. 19.2 V  Operating voltage AC max. 28.8 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  Current operating per contact max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional contion protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage DC min. 19.0 KW  Material group (IEC 60684-1) I  Additional conting per contact max inserted, screwed  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Environmental characteristics   Climatic  Deparating temperature min25 °C  Operating temperature max. 25 °C  Operating temperature max. 25 °C  Operating temperature max. 20 °C *C  Operating temperature min25 °C  Operating temperature max. 20 °C *C  Operating temperature min25 °C  Operating temperature min		
Drop-out delay time max.   20 ms		
Decreting voltage AC		20
Operating voltage AC	· · ·	20 ms
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           Current consumption max.         12 mA           Diagnostics           Status indication LED         yellow           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP67           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Metarial group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating locking         verzinkt           Coating locking         black           Mechanical data   Material data           Coating locking         verzinkt	Electrical data   Supply	
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           Current consumption max.         12 mA           Diagnostics           Status indication LED         yellow           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP67           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60684-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C		
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 perating per contact max.         4 A           Current consumption max.         12 mA           Diagnostics           Status indication LED         yellow           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP67           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C           Operating temperature max.         24 V <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td>		· · · · · · · · · · · · · · · · · · ·
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 Current consumption max. 12 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Color housing black Material gasket PUR Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic Coperating temperature min25 °C Coperating temperature max. 85 °C		•
Operating voltage DC max. 55 V Current operating per contact max. 4 A Current consumption max. 12 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Color housing black Material gasket PUR Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C		
Cut-off peak voltage max. 55 V Current operating per contact max. 4 A Cutrent consumption max. 12 mA  Diagnostics Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Color housing black Material gasket PUR Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C		
Current operating per contact max. 12 mA  Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		
Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		
Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		
Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		12 MA
Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Diagnostics	
Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Status indication LED	yellow
Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Device protection   Electrical	
Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Degree of protection (EN IEC 60529)	IP67
Rated surge voltage 0,8 kV  Material group (IEC 60664-1) I  Additional suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)  Additional suppressor  Diode, Z-Diode  Mechanical data   Material data  Coating locking  verzinkt  Color housing  black  Material gasket  PUR  Locking material  Steel  Mechanical data   Mounting data  Mounting method  inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C	Pollution Degree	3
Additional suppressor  Mechanical data   Material data  Coating locking  verzinkt  Color housing  black  Material gasket  PUR  Locking material  Steel  Mechanical data   Mounting data  Mounting method  inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C	Rated surge voltage	0,8 kV
Mechanical data   Material data  Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Material group (IEC 60664-1)	I
Coating locking verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Additional suppressor	Diode, Z-Diode
Color housing black  Material gasket PUR  Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mechanical data   Material data	
Material gasket PUR Locking material Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Coating locking	verzinkt
Locking material  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Color housing	black
Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C		PUR
Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Locking material	Steel
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C	Mechanical data   Mounting data	
Operating temperature min25 °C Operating temperature max. 85 °C	Mounting method	inserted, screwed
Operating temperature max. 85 °C	Environmental characteristics   Climatic	
Operating temperature max. 85 °C	Operating temperature min.	-25 °C

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: 2024-05-21



stay connected

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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
vire arrangement	black 1, black 2, black 3, green-yellow
Cable identification	027
Cable Type	2
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
vire arrangement	black 1, black 2, black 3, green-yellow
Cable weigth	74,8 g/m
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	6,5 mm
Folerance outer diameter (sheath)	±5%
Material inner jacket	PVC
Color (inner jacket)	yellow
Material wire insulation	PVC
Amount wires	4
Outer diameter insulation	1,8 mm
Outer diameter insulation	±5%
Shore hardness wire insulation	± 5 % 43 ± 5 Shore D
	lead-free, cadmium-free, CFC-free, silicone-free
ngredient freeness wire insulation	
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Electrical function wire	Signal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9,6 A
Electrical function wire	Signal
Electrical resistance line constant wire	26 Ω/km @ 20 °C
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 ℃
Operating temperature max. (dynamic)	2° 08
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Dil resistance	DIN EN 60811-404
Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C