

## MSUD valve plug BI-11mm with cable

PVC 3x0.75 bk 5m

MSUD Form BI (11 mm) 24 V AC ±20% / DC ±25% LED and suppression

Further cable lengths on request.

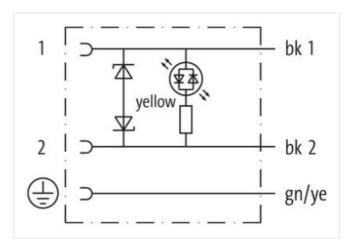
Plastic housings with good resistance against chemicals and oils.

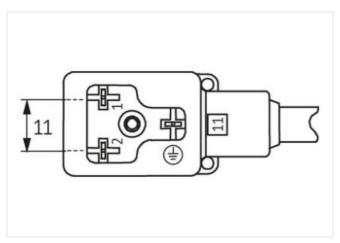
The resistance to aggressive media should be individually tested for your application. Further details on request.

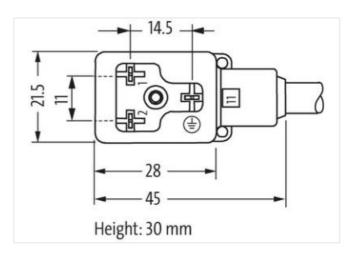
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

5 m

Side 1

Tightening torque 0,4

0,4 Nm

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



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Thread         M3           Material         PBT           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         2779218           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879221511           Packaging unit         1           Electrical data         Electrical data           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           Cut-off peak voltage max.         55 V           Current operating per contact max.         4 A	Mounting method	inserted, screwed
Thread	Family construction form	MSUD BI
Degree of protection (EN IEC 60829)   IP67	Thread	M3
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27789216           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETM-5.0         ECOLASS-12.0           GTN         4046879221511           Packaging unit         1           Electrical data         Electrical data           Electrical data (Supply         20 ms           Electrical data (Supply         20 ms           Electrical data (Supply         20 ms           Perating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,8 V           Operating voltage DC min.         19,8 V           Operating voltage DC min.         19,8 V           Outret operating per contact max.         4 A           Autret operating per contact ma	Material	PBT
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ECLASS 7.0         27278218           ECLASS 8.0         27278218           ECLASS 9.0         27060311           ECLASS 1.1         27060312           ECLASS 1.2.0         27060312           ECLASS 1.2.0         27060312           ECLASS 1.2.0         ECO01835           COLORIST COL		
ECLASS 7.0         27278218           ECLASS 8.0         27278218           ECLASS 9.0         27060311           ECLASS 1.1         27060312           ECLASS 1.2.0         27060312           ECLASS 1.2.0         27060312           ECLASS 1.2.0         ECO01835           COLORIST COL	ECLASS-6.0	27279218
ECLASS 8.0         27279218           ECLASS 9.0         27060311           ECLASS-1.1         27060312           ECLASS-1.1         27060312           ECLASS-1.20         27060312           ETIM-5.0         E0001885           customs suff rumber         85444290           GTIN         404879221511           Packaging unit         1           Electrical data		
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customs tariff number         85444290           GTIN         4048879221511           Packaging unit         1           Electrical data         V           Capacity CX         20 ms           Electrical data   Suppty         V           Operating voltage AC ms.         19.2 V           Operating voltage AC ms.         28.8 V           Operating voltage DC ms.         24 V           Operating voltage DC min.         18 V           Operating voltage DC ms.         30 V           Cut off peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics         V           Status indication LED         yellow           Installation   Connection         W           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664+1)         1           Additional surgeressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt <t< td=""><td></td><td></td></t<>		
GTIN         4048879221511           Packaging unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply         V           Operating voltage AC         24 V         Poperating voltage AC max         28,8 V           Operating voltage DC min.         19.2 V         Poperating voltage DC min.         18 V           Operating voltage DC min.         18 V         Poperating voltage DC max.         30 V           Cut-off peak voltage max.         55 V         Cut-off peak voltage max.         4 A           Cutrent consumption max.         15 mA         Poperating voltage DC max.         4 A           Diagnostics           Status indication LED         yellow         Poperating voltage Max.         4 A           Diagnostics           Status indication LED         yellow         Max.         Max.           Diagnostics           Status indication LED         yellow         Max.         Max. <th< td=""><td></td><td></td></th<>		
Packaging unit         1           Electrical data         20 ms           Electrical data   Supply         V           Operating voltage AC         24 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Use indication LED         yellow           Installation   Connection         Mounting set           Mounting set         Ma           Device protection   Electrical           Auditional condition protection degree         3           Related arrough (Ecosed+1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating locking         verzinkt           Color housing         black           Material sorew connection <td< td=""><td></td><td></td></td<>		
Electrical data   Supply           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 min.         30 V           Cut-off peak voltage max.         55 V           Cut-off peak voltage max.         15 mA           Current consumption max.         15 mA           Valuation   Connection with a part of per contact max.           May be a part of per contact max.           Valuation   Connection with a part of per colspan="2">Valuation   Connec		
Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC max.         28.8 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Current operating per contact max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics         V           Status indication LED         yellow           Installation   Connection         W           Mounting set         M3           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60664-1)         1           Additional suppressor         Diode           Mechanical data   Material data           Coating locking         verzinkt           Coating of fitting         verzinkt           Coating asket         PUR           Locking material         Steel		·
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         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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Delution Degree         inserted, screwed           Pollution Degree         3           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Read surge voltage         0,8 kV           Material group (ICG 60684-1)         I           Mechanical data   Material data           Coating locking         verzinkt           Coating locking         verzinkt           Coating locking         verzinkt		
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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-oil peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical         M3           Additional condition protection degree         inserted, screwed           Follution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating material         Steel           Material screw connection         Steel           Mechanical data   Mounting data	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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           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         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           <	Operating voltage AC	24 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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         3           Rated surge voltage         0,8 kV           Material group (IEC 6668-1)         1           Additional suppressore         Diode, Z-Diode           Mechanical data   Material data         Coating offiting           Coating offiting         verzinkt           Coating offiting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Mechanical data   Mounting data           Mechanical data   Mounting data           Mechanical data   Mounting data           Mechanical total cata   Mounting data           Mechanical total p Mounting data </td <td>Operating voltage AC min.</td> <td>19,2 V</td>	Operating voltage AC min.	19,2 V
Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Cut-off peak voltage max.         55 V           Cutrent operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Material screw connection         steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C	Operating voltage AC max.	28,8 V
Operating voltage DC max.         30 V           Cut-oft peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED           Installation   Connection           Mounting set         M3           Device protection   Electrical           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           Coating of fitting         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
Cut-off peak voltage max.         55 V           Current operating per contact max.         4 A           Current consumption max.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 60664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data           Coating locking           Verzinkt           Coating of fitting         verzinkt           Color housing         black           Material gasket         PUR           Locking material         Steel           Material grown connection         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic           Operating temperature min.         -25 °C	Operating voltage DC min.	18 V
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Diagnostics         Status indication LED       yellow         Installation   Connection         Mounting set       M3         Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       1         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data         Coating locking       verzinkt         Coating of fitting       verzinkt         Coolr housing       black         Material gasket       PUR         Locking material       Steel         Mechanical data   Mounting data         Mechanical data   Mounting data         Mounting method       inserted, screwed         Environmental characteristics   Climatic         Operating temperature min.       -25 °C	Current operating per contact max.	4 A
Status indication LED yellow  Installation   Connection  Mounting set M3  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 0,8 kV  Material group (IEC 60664-1) Indication protection degree indication protection protection degree indication protection degree indication protection degree indication protection protection protection protection protect	Current consumption max.	15 mA
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Mounting set M3  Device protection   Electrical  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  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material  Locking material  Steel  Material screw connection Steel  Mechanical data   Mounting data  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Deparating temperature min25 °C	Status indication LED	yellow
Device protection   Electrical  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  Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material  Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Installation   Connection	
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Addition 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 Coating of fitting verzinkt Color housing black  Material gasket PUR Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Degrating temperature min25 °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 Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		inserted serviced
Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Additional suppressor       Diode, Z-Diode         Mechanical data   Material data         Coating locking       verzinkt         Coating of fitting       verzinkt         Color housing       black         Material gasket       PUR         Locking material       Steel         Material screw connection       Steel         Mechanical data   Mounting data       Mounting method         Inserted, screwed       inserted, screwed         Environmental characteristics   Climatic         Operating temperature min.       -25 °C	<u></u>	
Material group (IEC 60664-1) I Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Additional suppressorDiode, Z-DiodeMechanical data   Material dataCoating lockingverzinktCoating of fittingverzinktColor housingblackMaterial gasketPURLocking materialSteelMaterial screw connectionSteelMechanical data   Mounting dataMounting methodinserted, screwedEnvironmental characteristics   ClimaticOperating temperature min25 °C		U,U NV
Mechanical data   Material data  Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		Niedo 7 Diedo
Coating locking verzinkt Coating of fitting verzinkt Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Coating of fitting verzinkt  Color housing black  Material gasket PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min. verzinkt		
Color housing black Material gasket PUR Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Material gasket Locking material Steel Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  Steel  Inserted, screwed  -25 °C		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  Inserted, screwed  -25 °C		
Mechanical data   Mounting data       Mounting method     inserted, screwed       Environmental characteristics   Climatic       Operating temperature min.     -25 °C		
Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		Steel
Environmental characteristics   Climatic  Operating temperature min25 °C	Mechanical data   Mounting data	
Operating temperature min25 °C	Mounting method	inserted, screwed
	Environmental characteristics   Climatic	c
	Operating temperature min.	-25 °C
		85 °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: 2024-05-17



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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	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
<u> </u>	lead-free, cadmium-free, CFC-free, silicone-free
Freedom from ingredients (jacket)	
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5% PVC
Material wire insulation	
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
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