

## MSUD valve plug BI-11mm with cable

PUR 3x0.75 ye UL/CSA 20m

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

Further cable lengths on request.

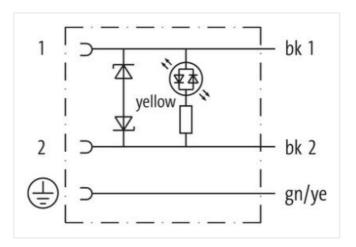
Plastic housings with good resistance against chemicals and oils.

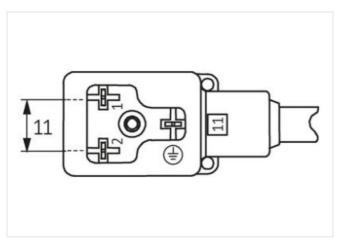
The resistance to aggressive media should be individually tested for your application. Further details on request.

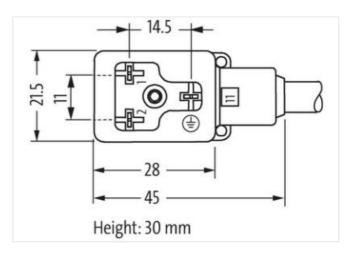
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

20 m

Side 1

Tightening torque

0,4 Nm



stay connected

Thread M3	Mounting method	inserted, screwed
Tread	Family construction form	
Metroid   PBT		
Commercial data	Material	PBT
Commercial data	Degree of protection (EN IEC 60529)	IP67
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         2700311           ECLASS-11         2700312           ECLASS-11.1         2700312           ECLASS-12.0         2700312           ECLASS-17.0         2700312           ECLASS-17.0         2700312           ECLASS-17.0         40487800146           FIRM-5.0         E001855           customs sairf number         8544220           GTIN         40487830146           Packaging unit         1           Electrical data         1           Popo out dissip from max.         20 ns           Electrical data   Supply         1           Operating voltage AC         24 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.         18 V           Operating voltage DC max.         30 V           Cut of pack voltage DC max.         30 V           Cut of pack voltage DC max.         15 nA           Diagnostics         5 V           States infocation L		
ECLASS-7.0         27279218           ECLASS-8.0         2779818           ECLASS-9.0         27060311           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETM-5.0         ECO01895           Causions farfil mumber         8544290           GTIN         4048879304146           Peckaging unit         1           Electrical data         2           Drop-out delay time max.         20 ms           Electrical data I Supply         2           Operating voltage AC max.         28.9 V           Operating voltage AC max.         28.9 V           Operating voltage AC max.         28.9 V           Operating voltage DC max.         28.9 V           Operating voltage DC max.         30 V           Cut of topask voltage max.         55 V           Cut of topask voltage max.         55 V           Cut of topask voltage max.         15 mA           Diagnostice         Status indication LED         yelow           Installation Connection         Max           Mounting set         M3           Device protection I Electrical           Additional contion protection degree		07070040
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECOM 855           customs staff number         85444290           GTIN         404878304146           Packaging unit         1           Electrical data         ************************************		
ECLASS 9.0         27060311           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO01855           customs tariff number         85444290           GTIN         4048878304146           Packaging unit         1           Electrical data         UNIVERSAL SUPPY           Opprating voltage AC         24 V           Opprating voltage AC min.         19.2 V           Opprating voltage AC min.         19.2 V           Opprating voltage AC max.         28.8 V           Opprating voltage DC min.         18 V           Opprating voltage DC max.         30 V           Current operating par contact max.         4 A           Current operating par contact max.         4 A           Current operating par contact max.         4 A           Diagnostics         Status indication LED           Status indication Connection         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raced surge voltage         0,8 kV           Material group (EC 606641)         I		
ECLASS-1.1.1         27060312           ECLASS-12.0         27060312           ETIMS-0.1         ECO01855           Oattoon Staff fumber         6544290           GTIN         4048979304146           Packaging unit         1           Electrical data         Electrical data           Drop-out delay time max.         20 ms           Electrical data [Supply         Properting voltage AC           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           Current operating per contact max.         4 A           Underlay pask voltage max.         55 V           Status indication LED         yallow           Institution of Connection         Monthly active protection degree           Mounting set         Ms           Device protection [Electrical         Active pask voltage           Pollution protection degree         3		
ECLASS-1.11         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001805           customs tariff number         85444290           GTIN         4048873904146           Packaging unit         1           Electrical data         1           Drop- ot delay time max.         20 ms           Electrical data   Supply         Electrical data   Supply           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC min.         18.4 V           Oursent operating por contact max.         4 A           Current onesumption max.         15 mA           Diagnostics         Status indication LED           Status indication   Connection         Ma           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         0.8 kV           Multical group (IEC 80664-1) <td< td=""><td></td><td></td></td<>		
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ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404887904146           Packaging unit         1           Electrical data           Electrical data   Suppty           Operating voltage AC         24 v           Operating voltage AC min.         19.2 v           Operating voltage AC min.         19.2 v           Operating voltage DC         24 v           Operating voltage DC min.         18 v           Operating voltage DC min.         18 v           Operating voltage DC max.         30 v           Cut-off peak voltage max.         55 v           Current consumption max.         15 mA           Diagnostics           Status indication LED         yallow           Installation   Connection           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Reted surge voltage         0.8 kV           Material group (IEC 69664-1)         I           Additional suppressor         Diode, 2-Diode           Mechanical data		
customs tariff number         85444280           GTIN         4048873304146           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms           Electrical data   Suppty         V           Operating voltage AC         24 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-off peak voltage max.         55 V           Current operating por contact max.         4 A           Diagnostics         Status indication LED           Installation   Connection         was           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 grou		
GTN         4048879304146           Packaging unit         1           Electrical data         V           Drop-out delay time max.         20 ms           Electrical data   Supply         V           Operating voltage AC         24 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 DC max.         30 V           Cut off peak voltage max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Diagnostics         Validomal call on LED         yellow           Installation   Connection         Ma           Mounting set         Ma         Ma           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         A           Additional suppressor         Diode, 2-Otode           Mechanical data   Material data         Coating locking         verzinkt           Coating locking         verzinkt         Coating locking overzing and screw connection         Steel <td></td> <td></td>		
Packaging unit         1           Electrical data         20 ms           Drop-out delay time max.         20 ms           Electrical data   Supply         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 pC max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           United peak voltage max.         55 V           Current operating per contact max.         4 A           United policy portion         15 mA           Diagnostics         V           Status indication LED         yellow           Installation   Connection           Mounting set         Ma           Device protection   Electrical           Additional condition protection degree         3           Rated surge voltage         0.8 kV           Material group (Ecoses+1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data		
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Drop-out delay time max.   20 ms		I
Potenting voltage AC	Electrical data	
Operating voltage AC         24 V           Operating voltage AC min.         19,2 V           Operating voltage AC max.         23,8 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           Cut-off peak voltage 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 60684-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating of fitting         verzinkt           Coder housing         black           Material gasket         PUR           Locking material         Steel <t< td=""><td>Drop-out delay time max.</td><td>20 ms</td></t<>	Drop-out delay time max.	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.         15 mA           Diagnostics           Status indication LED         yellow           Installation   Connection           Mounting set         M3           Device protection   Electrical         M3           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         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating of material         Steel           Material screw connection         Steel           Mechanical data   Mounting data           Mounting method         inserted, screw	Electrical data   Supply	
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           Device protection   Electrical         M3           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         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Coating of material         Steel           Material screw connection         Steel           Mechanical data   Mounting data           Mounting method         inserted, screw	Operating voltage AC	24 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           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 80664-1)         I           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Verzinkt           Coating of fitting         verzinkt           Coating of fitting         verzinkt           Color housing         black           Material screw connection         Steel           Mechanical data   Mounting data           Mounting method         inserted, screwed           Environmental characteristics   Climatic      <		19.2 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 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 60684-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Coating locking           Coating locking         verzinkt           Coating locking         verzinkt           Coating offiting         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 <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.         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 offiting         verzinkt           Coating offiting         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           Oper		
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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         Werzinkt           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 min.         -25 °C		30 V
Current operating per contact 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  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  Environmental characteristics   Climatic  Departing temperature min25 °C		55 V
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         Coating locking       verzinkt         Coating of fitting       verzinkt         Coating of fitting       verzinkt         Coating of fitting       verzinkt         Coating agaket       PUR         Locking material       Steel         Mechanical data   Mounting data         Mechanical data   Mounting data         Mounting method       inserted, screwed         Environmental characteristics   Cl		4 A
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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  Steel  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		youd
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  Material screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
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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	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  Material screw connection  Steel  Mechanical data   Mounting data  Mounting method  inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Jiode (2.5 °C	Pollution Degree	3
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	Rated surge voltage	0,8 kV
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	Material group (IEC 60664-1)	I
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 suppressor	Diode, Z-Diode
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	Mechanical data   Material data	
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		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 PUR  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  Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C		
Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C		
Environmental characteristics   Climatic  Operating temperature min25 °C		incorted paramed
Operating temperature min25 °C		
	Environmental characteristics   Climatic	
Operating temperature max. 85 °C		
	Operating temperature max.	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: 2024-05-18



stay connected

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	<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	
wire arrangement	black 1, black 2, green-yellow
Cable identification	026
Cable Type	2
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	55 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)	5,9 mm
Tolerance outer diameter (sheath)	± 5 %
Material inner jacket	PVC
Color (inner jacket)	yellow
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
	· · · · · · · · · · · · · · · · · · ·
Outer diameter tolerance core insulation	± 5 % 43 ± 5 Shore D
Shore hardness wire insulation	
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	9,6 A
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 °C
Operating temperature max. (dynamic)	80 °C
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil 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
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C