

## MSUD valve plug BI-11mm with cable

PUR 3x0.75 bk UL/CSA 10m

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

Further cable lengths on request.

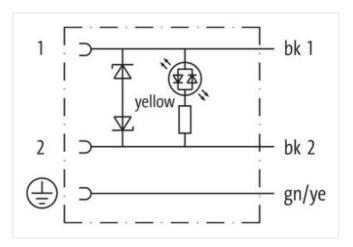
Plastic housings with good resistance against chemicals and oils.

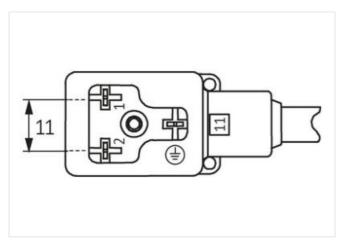
The resistance to aggressive media should be individually tested for your application. Further details on request.

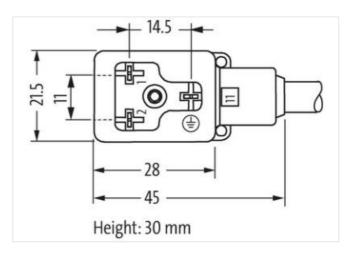
## **Link to Product**

## Illustration









Product may differ from Image









Cable length

10 m

Side 1

Tightening torque 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: 2024-05-10



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Treed         MS           Mesterial         PBT           Obgres of protection (EN ICC 00529)         P67           Commercial data         P67           ECLASS-R.0         27279218           ECLASS-R.0         27279218           ECLASS-B.0         2779218           ECLASS-B.0.1         27090312           ECLASS-B.1.1         27090312           ECLASS-B.2.0         27000312           Eccasion C	Mounting method	inserted, screwed
Treed         MS           Mesterial         PBT           Obgres of protection (EN ICC 00529)         P67           Commercial data         P67           ECLASS-R.0         27279218           ECLASS-R.0         27279218           ECLASS-B.0         2779218           ECLASS-B.0.1         27090312           ECLASS-B.1.1         27090312           ECLASS-B.2.0         27000312           Eccasion C	Family construction form	MSUD BI
Degree of protection (EN IEC 605829)   IP67	Thread	M3
Commercial data         Commercial data           ECIASS-8.0         27279218           ECIASS-7.0         27279218           ECIASS-8.0         2779218           ECIASS-10.1         27069312           ECIASS-11.1         27069312           ECIASS-12.0         27069312           ETIM-5.0         ECOL1855           COLTA STATE OF A CONTROL         4048778221405           Packaging unit         1           Electrical data         200 ms           Electrical data (Supply         20 ms           Ceparating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,2 V           Operating voltage AC min.         19,0 V           Current operating portage AC min.         19,0 V           Current operating voltage DC min.         18 V           Current operating portage AC min.         19 V           Current operating port contract max.         4 A           Current operating port contract max.         16 mA           District power portage of min.	Material	PBT
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27090312           ECLASS-11.1         27090312           ECLASS-11.1         27090312           ECLASS-12.0         27090312           ECLASS-12.0         120001855           customs tariff number         85444290           GTIN         4046073221405           Packaging unit         1           Electrical data         1           Electrical data         1           Electrical data [Supply         1           Operating voltage AC         24 V           Operating voltage AC         24 V           Operating voltage AC Com.         19,2 V           Operating voltage AC Com.         28,8 V           Operating voltage DC max.         36 V           Operating voltage DC max.         30 V           Gui off peak voltage max.         55 V           Current operating per contact max.         4 A           Current operating to per contact max.	Degree of protection (EN IEC 60529)	IP67
EGLASS-7.0         27278218           EGLASS-8.0         27278218           EGLASS-9.0         27060311           EGLASS-10.1         27060312           EGLASS-11.2         27060312           EGLASS-12.0         27060312           ETIM-5.0         EDCO01855           GIN         4048078221405           Packaging unit         1           Electrical data         2           Capacity CX         20 ms           Electrical data [Supity         2           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 AC max         30 V           Culred pack voltage max         35 V           Culred pack voltage max         35 V           Outeral voltage max         15 mA		
EGLASS-7.0         27278218           EGLASS-8.0         27278218           EGLASS-9.0         27060311           EGLASS-10.1         27060312           EGLASS-11.2         27060312           EGLASS-12.0         27060312           ETIM-5.0         EDCO01855           GIN         4048078221405           Packaging unit         1           Electrical data         2           Capacity CX         20 ms           Electrical data [Supity         2           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 AC max         30 V           Culred pack voltage max         35 V           Culred pack voltage max         35 V           Outeral voltage max         15 mA	ECLASS-6.0	27279218
ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ETIM-5.0 ECON 855 customs tarif number 85444290 GTIN 404879221405 Packaging unit 1 Electrical data Separaty CX 20 ms Electrical data Supply Operating voltage AC 24 V Operating voltage AC 28 V Operating voltage AC 29 V Operating voltage AC 20 S Operating voltage AC 30 V Operating voltage BC min. 18 V Operating voltage BC min.		
ECLASS-9.0 27060311 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 ECONSES COLUSTON STATE OF ST		
EGLASS-10.1         27060312           EGLASS-11.0         27060312           ETIM-5.0         E0001855           customs tariff number         85444290           GTIN         4048879221406           Packaging unit         1           Electrical data         Electrical data           Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC max.         28.8 Y           Operating voltage AC max.         28.8 Y           Operating voltage DC min.         18 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating voltage max.         55 V           Status indication LED         yellow           Installation   Connection         Maximum		
ECLASS 11.1         27060312           ECLASS 12.0         27060312           ETIMI-5.0         EC001895           oustoms fall'fl number         8544220           GTIN         4048878221405           Packaging unit         1           Electrical data		
ECI ASS-12.0         27060312           ETIM-5.0         EC001985           customs tariff number         8544290           GTIN         4048879221405           Packaging unit         1           Electrical data         Electrical data           Capacity CX         20 ms           Electrical data   Suppty         Poperating voltage AC mx           Operating voltage AC min.         19.2 Y           Operating voltage AC min.         19.2 Y           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage per contact min.         4 A           Current operating per contact min.         4 M           United per per contact min.         4 M           Current operating per contact min.         4 M           Current operating formetetion feer min.         4 M           Installation LD         yellow           Installation condition protection degree         instructed.           Additional suppressor         Diode, Z-Diode		
ETIM-5.0         EC001855           customs farlf number         85444290           GTIN         404887921405           Packaging unit         1           Electrical data           Electrical data   Supply           Capacity CX         20 ms           Electrical data   Supply           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 max.         30 V           Cut-ort pask voltage max.         55 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Use protection   Electrical         M3           Installation   Connection           Mounting set         M3           Deliver protection   Electrical           Additional condition protection degree         18 volume   10 months           Pullution Degree         3           Reteat surge voltage         0.8 kV           Material group (ICE 69684-1)         1 <th< td=""><td></td><td></td></th<>		
customs tariff number         85444290           GTIN         4048879221405           Packaging unit         1           Electrical data         V           Capacity CX         20 ms           Electrical data   Supply         V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage AC max.         28.8 V           Operating voltage DC min.         18 V           Operating voltage DG min.         18 V           Operating voltage DG max.         30 V           Cut-off peak voltage max.         30 V           Cut-off peak voltage max.         4 A           Diagnostics         Status indication LED           Installation   Connection         Mo           Mounting set         M3           Device protection   Electrical           Additional condition protection degree         inserted, screwed <t< td=""><td></td><td></td></t<>		
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Electrical data   Supply           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC max.         28,8 V           Operating voltage DC max.         28,8 V           Operating voltage DC max.         30 V           Cut-of peak voltage max.         55 V           Cut-of peak voltage 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           Mactrial group (IEC 60664-1)         1           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data         Verzinkt           Cooling for fitting         verzinkt           Cooling packed         PUR           Locking material         Steel           Mechanical data   Mounting data         Mounting method           Mounting method         inserted, s		
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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           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV           Material group (ICC 60664-1)         I           Mechanical data   Material data         Verzinkt           Coating locking         verzinkt           Coating locking         verzinkt           Coating lasket         PUR           Locking material         Steel           Metchanical data   Mounting data         inserted,		
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           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)         I           Additional suppressor         Diode, 2-Diode           Mechanical data   Material data           Coating of litting         verzinkt           Coating of litting         verzinkt           Coating of litting         verzinkt           Coating of	Capacity CX	20 ms
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Operating voltage AC max.         28,8 V           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Gut-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           4 Additional condition protection degree         3           8 acted surge voltage         0.8 kV           Material group (IEC 66664-1)         1           Additional suppressor         Diode, Z-Diode           Mechanical data   Material data         Coating locking           Coating locking         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           Fevironmental characteristics   Climatic	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 litting         verzinkt           Coating of litting         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 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)         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 min.         -25 °C	Operating voltage DC min.	18 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 Condition suppressor Diode, Z-Diode  Mechanical data   Material data  Coating locking verzinkt  Coating of fitting verzinkt  Color housing black  Material grasket PUR  Locking material Steel  Material screw connection Steel  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting data  Mechanical data   Mounting method inserted, screwed  Environmental characteristics   Climatic  Environmental characteristics   Climatic	Operating voltage DC max.	30 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 affitting verzinkt  Coating asket PUR  Locking material Screw connection Steel  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Poperating temperature min. 25 °C	Cut-off peak voltage max.	55 V
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) I 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 Screw connection Steel  Material screw connection Steel  Material screw connection inserted, screwed  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C	Current consumption max.	15 mA
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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	Device protection   Electrical	
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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		
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		
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 min. perzinkt		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		Diode, Z-Diode
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Locking material  Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  Steel  Steel  Authority Steel  Steel  Steel  Steel  Steel  Steel  Steel  Steel  Authority Steel  Inserted, screwed		
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  Steel  According to the screw connection of the screw con		
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
	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: 2024-05-10



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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	<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	
Cable identification	626
Cable Type	2
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Cable weigth	55,33 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
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,8 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
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	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 ℃
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
Travel speed (C-track)	2 Mio. @ 25 °C