

## MSUD double valve BI-11mm with cable

PVC 4x0.75 gy 10m

Form BI (11 mm)
24 V AC ±20% / DC ±25%
LED and suppression
Connection cable L = 150 mm
Further cable lengths on request.

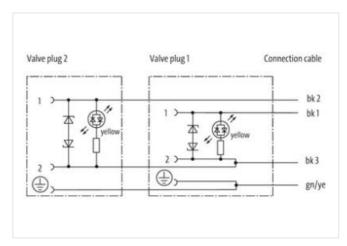
Plastic housings with good resistance against chemicals and oils.

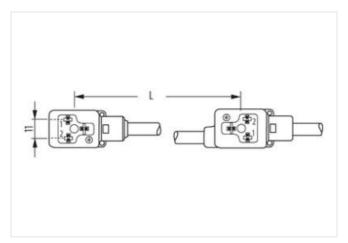
The resistance to aggressive media should be individually tested for your application. Further details on request.

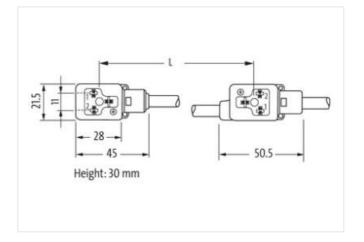
## **Link to Product**

## Illustration









Product may differ from Image



Cable length 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: 2024-05-19



stay connected

Commercial data         ECIASS-6.0         27279218           ECIASS-7.0         27279218           ECIASS-7.0         27279218           ECIASS-8.0         27279218           ECIASS-9.0         27060312           ECIASS-10.1         27060312           ECIASS-11.1         27060312           ECIASS-12.0         27000312           ETIM-6.0         ECO01855           CULASS-12.0         27000312           ETIM-6.0         ECO01855           CULASS-17.1         4048879138428           Packaging unit         1           Electrical data         1           Electrical data         2           Operating voltage AC         20 ms           Electrical data         2           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 max.         55 V           Current orasumpion max.         12 mA	Thread	M3
Thread	Side 2	
Thread	Tightening torque	0.4 Nm
ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETM 5.0         ECO91855           Oustons tainf number         8544290           GTN         40487913426           Packaging unit         1           Electrical data         Electrical data           Operating voltage AC         24 V           Operating voltage AC         24 V           Operating voltage AC Crax.         28.8 V           Operating voltage DC Crax.         30 V           Cut-off peak voltage DC max.         30 V           Cut-off peak voltage DC max.         30 V           Cut-off peak voltage max.         55 Y           Cut-off peak voltage max.         55 V           Daylor optoction [ Electrical Degrate pea	Thread	·
ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETM 5.0         ECO91855           Oustons tainf number         8544290           GTN         40487913426           Packaging unit         1           Electrical data         Electrical data           Operating voltage AC         24 V           Operating voltage AC         24 V           Operating voltage AC Crax.         28.8 V           Operating voltage DC Crax.         30 V           Cut-off peak voltage DC max.         30 V           Cut-off peak voltage DC max.         30 V           Cut-off peak voltage max.         55 Y           Cut-off peak voltage max.         55 V           Daylor optoction [ Electrical Degrate pea	Commercial data	
ECLASS-61         27279218           ECLASS-70         27279218           ECLASS-80         27090312           ECLASS-9.0         27090312           ECLASS-11.1         27060312           ECLASS-12.2         27090312           ECLASS-11.1         27060312           ECLASS-12.0         27090312           ECLASS-12.0         17070312           ECLASS-10.1         ECOPISS           cuatoms tarff number         6944230           GTIN         404887136426           Packaging unit         1           Electrical data         20           Separating vollage AC         20 ms           Electrical data         20           Operating vollage AC min         19.2 V		07070040
EGLASS-7.0         27279218           EGLASS-8.0         2779618           EGLASS-9.0         27060312           EGLASS-10.1         27060312           EGLASS-12.0         27060312           EGLASS-12.0         27060312           ETIM-5.0         ECO01835           Caucisms fairff number         85444290           GTIN         4048879130426           Packaging unit         1           Electrical data         1           Ejectrical data         20 ms           Electrical data         20 ms           Electrical data   Supply         20 ms           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage AC min.         19.2 V           Operating voltage DC max.         28.8 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Outrent operating per contact max.         12 mA           Degree of protection (EN EC 60529)         1P67           Additional contilon protection degree         inserted, screwed           Rated surge voltage         0.8 kV		
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ECLASS-9.0         27968012           ECLASS-10.1         27068012           ECLASS-11.1         27068012           ECLASS-12.0         27068012           ECLASS-12.0         ECO01855           coustoms rariff number         85444290           GTIN         4048879136426           Packaging unit         1           Electrical data           Capacity CX           Belectrical data   Supply           Operating voltage AC         24 V           Operating voltage AC mix.         19.2 V           Operating voltage AC mix.         28.8 V           Operating voltage AC mix.         28.8 V           Operating voltage DC mix.         18 V           Current operating ber contact mix.         12 mA           Cut off peak voltage mix.         58 V           Current operating ber contact mix.         12 mA           Diagnostics         58 taus indication LED           Status indication LED         yellow           Device protection (EN EC 60529)         IP67           Additional condition protection degr		
ECLASS-10.1         27060312           ECLASS-11.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         404887918426           Packaging unit         1           Electrical data         Capacity CX         20 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 AC max.         28.8 V           Operating voltage AC max.         28.9 V           Operating voltage DC max.         30 V           Cut-oft peak voltage max.         55 V           Cut-oft peak voltage max.         12 mA           Outered toperating per contact max.         4 A           Cutrent operating per contact max.         4 A           Cutrent operating per contact max.         4 A           Status indication LED         yellow           Device protection [Electrical         yellow           Device protection [Electrical         yellow           Device protection [Electrical         yellow           Degree of protoction (EN IEC 60529)		
ECLASS-1.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048379138426           Packaging unt         1           Electrical data           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 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 consumption max.         12 mA           Diagnostics         18 V           Oursent operating per contact max.         4 A           Current operating per protection   Electrical           Degree of protection   Electrical           Degree of protection   Electrical           Mechanical data   Material data         A           Color housing         black           Macterial data   Mounting data         inserted, screwed		
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ETIM-5.0         EC001885           customs tarlf number         85444290           GTIN         404887194246           Packaging unit         1           Electrical data           Electrical data   Suppty           Operating voltage AC         24 V           Operating voltage AC ma.         19.2 V           Operating voltage AC ma.         19.2 V           Operating voltage AC ma.         19.2 V           Operating voltage DC ma.         19.2 V           Operating voltage DC ma.         18 V           Operating voltage DC ma.         30 V           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Current operating per contact max.         4 A           Device protection   Electrical		
customs tariff number 85444290 GTIN 4048879136426 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Suppty  Operating voltage AC 24 V Operating voltage AC min. 19,2 V Operating voltage AC max. 28,8 V Operating voltage AC max. 28,8 V Operating voltage AC max. 30 V Operating voltage AC min. 18 V Operating voltage DC max. 30 V Out-off peak voltage DC max. 30 V Out-off peak voltage max. 55 V Out-off peak voltage max. 4 A Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection (EN IEC 80529) IP67 Additional condition protection degree inserted, screwed Rated surge voltage 0 also k Material housing Plaste  Mechanical data   Material data  Color housing black  Material housing Plaste  Mechanical data   Material data  Mechanical data   Material data   Mounting data  Mechanical data   Material data   Mounting data  Environmental characteristics   Climatic  Operating temperature min. 25 °C Operating temperature max. 85 °C Operating temperature max. 95 °C Operat		
GTIN 4048879136428 Packaging unit 1  Electrical data   Supply   Su		
Packaging unit   1  Electrical data   Supply		
Electrical data   Supply    Derating voltage AC   24 V    Operating voltage AC min.   19.2 V    Operating voltage AC min.   19.2 V    Operating voltage AC min.   19.2 V    Operating voltage DC   24 V    Operating voltage DC   24 V    Operating voltage DC min.   18 V    Operating voltage DC min.   18 V    Operating voltage DC min.   30 V    Cut-off peak voltage DC max.   30 V    Cut-off peak voltage max.   4 A    Current operating per contact max.   4 A    Current operating per contact max.   4 A    Diagnostics    Status indication LED   yellow    Device protection   Electrical    Degree of protection (EN IEC 60529)   IP67    Additional condition protection degree   inserted, screwed    Rated surge voltage   0,8 kV    Mechanical data   Material data    Material housing   black    Material housing   Plastic    Mechanical data   Mounting data    Multing method   inserted, screwed    Environmental characteristics   Climatic    Operating temperature min.   -25 °C    Operating temperature max.   85 °C    Additional condition temperature range   depending on cable quality    Important installation notes    Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.    Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		
Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC max. 28,8 V  Operating voltage DC min. 18,2 V  Operating voltage DC min. 18 V  Oursent operating per contact max. 4 A  Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection   Electrical  Degree of protection (EN IEC 60529) PF67  Additional condition protection degree inserted, screwed  Rated surge voltage 0, 8 kV  Mechanical data   Material data  Color housing black  Material housing place of the surfee o		<u> </u>
Electrical data   Supply  Operating voltage AC Operating voltage AC min. Operating voltage AC min. Operating voltage AC min. Operating voltage BC Operating per contact max.  4 A Oursent operating per contact max.  55 V  Operating tenderation to BC Operating tenderation degree Inserted, screwed  Machanical data   Material data  Outling method Inserted, screwed  Environmental characteristics   Climatic  Operating temperature min.  -25 °C Operating temperature min.  -25 °C Operating temperature max.  85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on bending radius  Atention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		
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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 consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Rated surge voltage 0,8 kV  Mechanical data   Material data  Cotor housing black Material housing Plastic  Mechanical data   Mounting data Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min. 25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protection class can be endangered by excessive bending forces.	Operating voltage AC min.	19,2 V
Operating voltage DC min. 18 V Operating voltage DC max. 30 V Out-off peak voltage max. 55 V Out-off peak voltage max. 4 A Current operating per contact max. 4 A Current consumption max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection   Electrical  Degree of protection (EN IEC 60529) IP67 Additional condition protection degree inserted, screwed Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C Additional condition interperature range depending on cable quality  Important Installation notes  Note on strain relief Protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Operating voltage AC max.	28,8 V
Operating voltage DC max. 55 V Current operating per contact max. 4 A 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 Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 85 °C  Additional condition notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Operating voltage DC	24 V
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Current operating per contact max. 12 mA  Diagnostics  Status indication LED yellow  Device protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black  Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Operating voltage DC max.	30 V
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  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Cut-off peak voltage max.	55 V
Status indication LED yellow  Pevice protection   Electrical  Degree of protection (EN IEC 60529) IP67  Additional condition protection degree inserted, screwed  Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Current operating per contact max.	4 A
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Rated surge voltage 0,8 kV  Mechanical data   Material data  Color housing black  Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		
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Material housing Plastic  Mechanical data   Mounting data  Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Mechanical data   Material data	
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Mounting method inserted, screwed  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	Material housing	Plastic
Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable	Mechanical data   Mounting data	
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Important installation notes  Note on strain relief  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable	Operating temperature max.	85 °C
Note on strain relief  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable	Additional condition temperature range	depending on cable quality
Note on strain relief  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Installation   Cable	Important installation notes	
endangered by excessive bending forces.  Installation   Cable	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	
	•	217



Cable Type	1
Printing color of wire insulation	white (isolation black)
Jacket Color	gray
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	black 1, black 2, black 3, green-yellow
Cable weigth	75,9 g/m
Material jacket	PVC
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	6,5 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PVC
Amount wires	4
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 mm <sup>2</sup>
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	9,6 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
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter