

**MSUD valve plug BI-11mm with cable**

PVC 3x0.75 bk 2m

MSUD

Form BI (11 mm)

0...230 V AC/DC

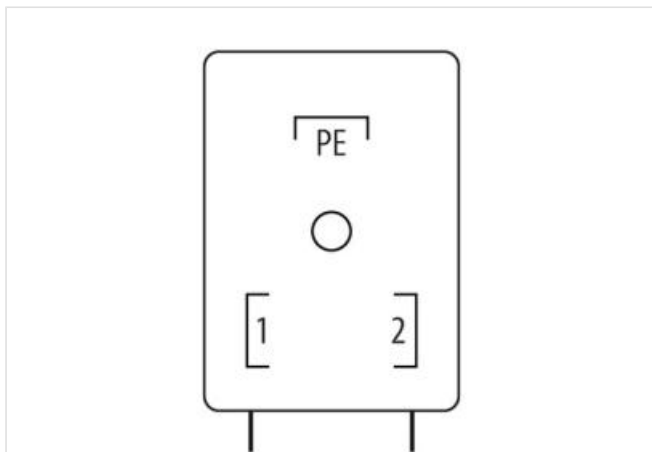
without components

PE opposite cable entry (180°)

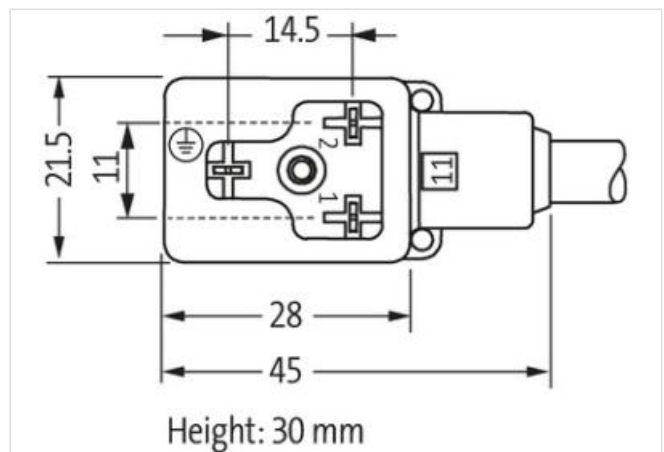
Further cable lengths on request.

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

2 m

**Side 1**

|                                     |                   |
|-------------------------------------|-------------------|
| Tightening torque                   | 0,4 Nm            |
| Mounting method                     | inserted, screwed |
| Family construction form            | MSUD BI           |
| Thread                              | M3                |
| Material                            | PBT               |
| Degree of protection (EN IEC 60529) | IP67              |

#### Commercial data

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27279218      |
| ECLASS-7.0            | 27279218      |
| ECLASS-8.0            | 27279218      |
| ECLASS-9.0            | 27060311      |
| ECLASS-10.1           | 27060312      |
| ECLASS-11.1           | 27060312      |
| ECLASS-12.0           | 27060312      |
| ETIM-5.0              | EC001855      |
| customs tariff number | 85444290      |
| GTIN                  | 4048879791168 |
| Packaging unit        | 1             |

#### Electrical data | Supply

|                                    |       |
|------------------------------------|-------|
| Operating voltage AC max.          | 230 V |
| Operating voltage DC max.          | 230 V |
| Current operating per contact max. | 10 A  |

#### Installation | Connection

|              |    |
|--------------|----|
| Mounting set | M3 |
|--------------|----|

#### Device protection | Electrical

|                                        |                   |
|----------------------------------------|-------------------|
| Additional condition protection degree | inserted, screwed |
| Rated surge voltage                    | 4 kV              |

#### Mechanical data | Material data

|                           |          |
|---------------------------|----------|
| Coating of fitting        | verzinkt |
| Color housing             | black    |
| Material housing          | Plastic  |
| Material screw connection | Steel    |

#### 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  | 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              | 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 weight                                      | 61,6 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)                           | 5,9 mm                                               |
| Tolerance outer diameter (sheath)                 | ± 5 %                                                |
| 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                                       |
| 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                   | 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                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |