

M12 male on back A-cod. / MSUD double valve A-18mm

PUR 3x0.75 gy UL/CSA 0m

Form A (18 mm) – M12, connector at the rear  
24 V AC  $\pm 20\%$  / DC  $\pm 25\%$   
LED and suppression  
Connection cable L = 200 mm  
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



| Side 1            |        |
|-------------------|--------|
| Tightening torque | 0,4 Nm |
| Thread            | M3     |
| Side 2            |        |

Tightening torque 0,4 Nm

Thread M3

#### Commercial data

|                       |               |
|-----------------------|---------------|
| ECLASS-6.0            | 27143423      |
| ECLASS-6.1            | 27279218      |
| ECLASS-7.0            | 27279218      |
| ECLASS-8.0            | 27279218      |
| ECLASS-9.0            | 27060312      |
| ECLASS-10.1           | 27060312      |
| ECLASS-11.1           | 27060312      |
| ECLASS-12.0           | 27060312      |
| ETIM-5.0              | EC001855      |
| customs tariff number | 85444290      |
| GTIN                  | 4048879144070 |
| Packaging unit        | 1             |

#### Electrical data

Drop-out delay time max. 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 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    |

#### Device protection | Electrical

|                                        |                   |
|----------------------------------------|-------------------|
| Degree of protection (EN IEC 60529)    | IP67              |
| Additional condition protection degree | inserted, screwed |

#### Mechanical data | Material data

|                  |         |
|------------------|---------|
| Color 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  | 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 | 226                            |
| Cable Type           | 2                              |
| Jacket Color         | gray                           |
| Type of Certificate  | cURus                          |
| Amount stranding     | 1                              |
| Stranding            | 3 wires twisted                |
| wire arrangement     | black 1, black 2, green-yellow |

|                                                   |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| Cable weight                                      | 55,33 g/m                                                      |
| Material jacket                                   | PUR                                                            |
| Shore hardness jacket                             | 85 ± 5 Shore A                                                 |
| Freedom from ingredients (jacket)                 | lead-free, cadmium-free, CFC-free, halogen-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               |
| 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 °C                                                          |
| Operating temperature max. (dynamic)              | 80 °C                                                          |
| UV resistance                                     | DIN EN ISO 4892-2 A                                            |
| Flame resistance                                  | IEC 60332-2-2   UL 1581 § 1090   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)                            | 10 x Outer diameter                                            |
| Bending radius (dynamic)                          | 15 x Outer diameter                                            |
| No. of bending cycles (C-track)                   | 2 Mio. @ 25 °C                                                 |
| Travel speed (C-track)                            | 3,3 m/s                                                        |