

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

PUR 3x0.75 gy UL/CSA+drag ch. 0m

Form A (18 mm) – M12, connector at the rear

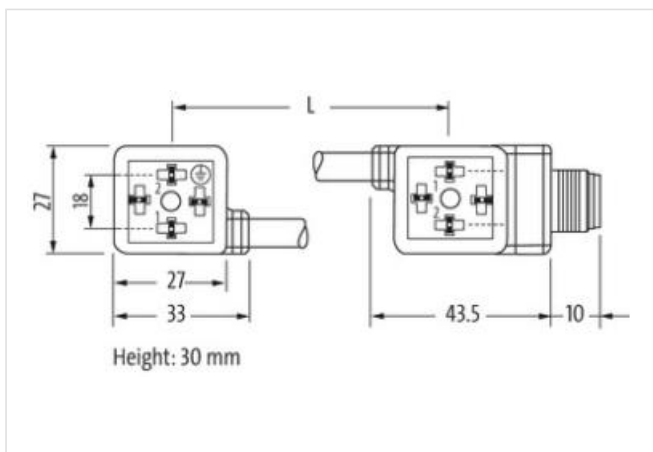
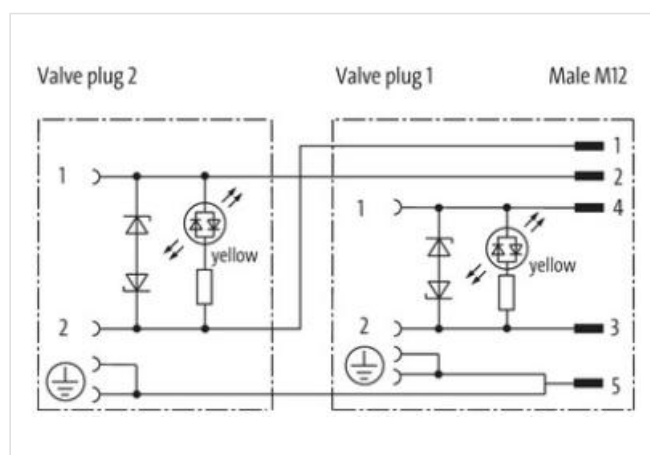
24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

LED and suppression

Connection cable L = 150 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.

**Linkki tuotteeseen****Kuvat**

Tuote voi erota kuvassa olevasta

**Side 1**

Tightening torque 0,4 Nm

Thread M3

**Side 2**

|                                          |                                                                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tightening torque                        | 0,4 Nm                                                                                                                                                |
| Thread                                   | M3                                                                                                                                                    |
| Kaupalliset tiedot                       |                                                                                                                                                       |
| ECLASS-6.0                               | 27279218                                                                                                                                              |
| 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                                                                                                                                              |
| GTIN                                     | 4048879681674                                                                                                                                         |
| Pakkauskoko                              | 1                                                                                                                                                     |
| Tullinumero                              | 85444290                                                                                                                                              |
| 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 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                                                                                                                                                  |
| Degree of protection (ISO 20653:2013)    | IP66K                                                                                                                                                 |
| 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                     |                                                                                                                                                       |
| Cable identification                     | 236                                                                                                                                                   |
| Cable Type                               | 3                                                                                                                                                     |
| Printing color of wire insulation        | white (isolation black)                                                                                                                               |
| Jacket Color                             | gray                                                                                                                                                  |
| Type of Certificate                      | cURus                                                                                                                                                 |
| Amount stranding                         | 1                                                                                                                                                     |
| Stranding                                | 3 wires twisted                                                                                                                                       |

|                                                   |                                                                |
|---------------------------------------------------|----------------------------------------------------------------|
| wire arrangement                                  | black 1, black 2, green-yellow                                 |
| Traversing distance (C-track)                     | 10 m @ 25 °C   horizontal                                      |
| Cable weight                                      | 56,1 g/m                                                       |
| Material jacket                                   | PUR                                                            |
| Shore hardness jacket                             | 90 ± 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 wire insulation                          | PP                                                             |
| Amount wires                                      | 3                                                              |
| Outer diameter insulation                         | 1,85 mm                                                        |
| Outer diameter tolerance core insulation          | ± 5 %                                                          |
| Shore hardness wire insulation                    | 70 ± 5 Shore D                                                 |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-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 mm²                                                       |
| 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)                | 2,5 kV @ 60 s                                                  |
| Power frequency withstand voltage (wire - jacket) | 2,5 kV @ 60 s                                                  |
| Min. operating temperature (static)               | -40 °C                                                         |
| Max. operating temperature (fixed)                | 80 °C / 90 °C @ 10000 h Operation                              |
| Operating temperature min. (dynamic)              | -25 °C                                                         |
| Operating temperature max. (dynamic)              | 80 °C / 90 °C @ 10000 h Operation                              |
| 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                                            |
| Travel speed (C-track)                            | 10 Mio. @ 25 °C                                                |
| No. of torsion cycles                             | 2 Mio.                                                         |
| Torsion stress                                    | ± 180 °/m                                                      |
| Torsion speed                                     | 35 cycles/min                                                  |