

**M12 male 90° A-cod. / MSUD valve plug A-18mm**

PVC 5x0.34 bk UL/CSA 0.3m

**MSUD**

Form A (18 mm) – M12, male 90°

24 V DC  $\pm 25\%$ 

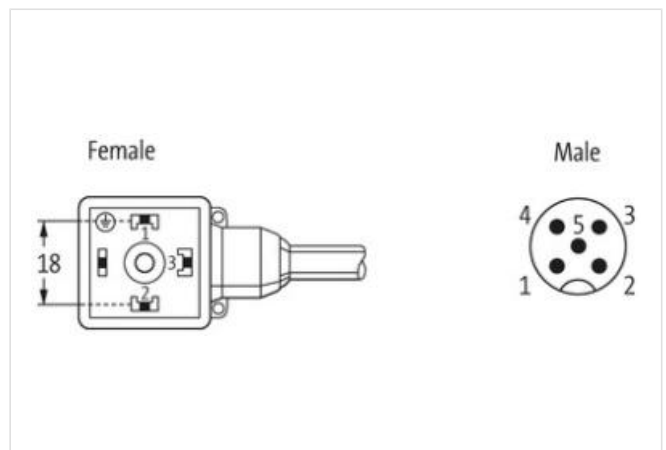
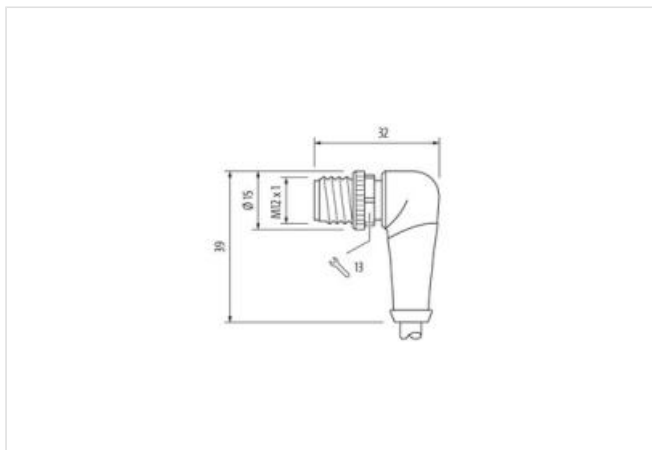
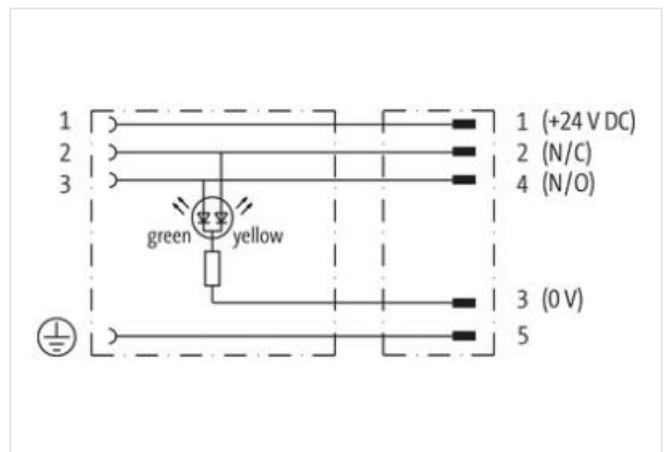
LED (yellow/green)

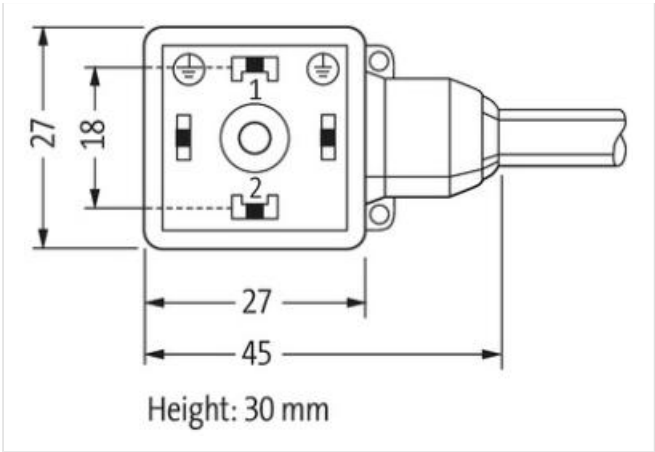
for pressure switches

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 naar het product](#)**Afbeelding**



Product van afwijken van afbeelding



|                                     |               |
|-------------------------------------|---------------|
| Cable length                        | 0,3 m         |
| Side 1                              |               |
| Tightening torque                   | 0,4 Nm        |
| Family construction form            | MSUD          |
| Thread                              | M3            |
| Degree of protection (EN IEC 60529) | IP66K, IP67   |
| Side 2                              |               |
| Tightening torque                   | 0,6 Nm        |
| Family construction form            | M12           |
| Thread                              | M12 x 1       |
| Degree of protection (EN IEC 60529) | IP66K, IP67   |
| Commerciële gegevens                |               |
| 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      |
| Douane tarief nummer                | 85444290      |
| GTIN                                | 4048879149433 |
| Verpakkingseenheid                  | 1             |
| Electrical data   Supply            |               |
| Operating voltage DC                | 24 V          |
| Operating voltage DC min.           | 18 V          |
| Operating voltage DC max.           | 30 V          |
| Current operating per contact max.  | 4 A           |
| Current consumption max.            | 12 mA         |
| Device protection   Electrical      |               |

|                                        |                   |
|----------------------------------------|-------------------|
| 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 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 | 615 |
|----------------------|-----|

|            |   |
|------------|---|
| Cable Type | 1 |
|------------|---|

|              |       |
|--------------|-------|
| Jacket Color | black |
|--------------|-------|

|                     |       |
|---------------------|-------|
| Type of Certificate | cURus |
|---------------------|-------|

|                  |   |
|------------------|---|
| Amount stranding | 1 |
|------------------|---|

|           |                                    |
|-----------|------------------------------------|
| Stranding | 5 wires around Core filler twisted |
|-----------|------------------------------------|

|        |     |
|--------|-----|
| Filler | yes |
|--------|-----|

|                  |                                         |
|------------------|-----------------------------------------|
| wire arrangement | brown, black, blue, white, green-yellow |
|------------------|-----------------------------------------|

|              |          |
|--------------|----------|
| Cable weight | 48,4 g/m |
|--------------|----------|

|                 |     |
|-----------------|-----|
| Material jacket | PVC |
|-----------------|-----|

|                       |                |
|-----------------------|----------------|
| Shore hardness jacket | 85 ± 5 Shore A |
|-----------------------|----------------|

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Freedom from ingredients (jacket) | lead-free, cadmium-free, CFC-free, silicone-free |
|-----------------------------------|--------------------------------------------------|

|                         |        |
|-------------------------|--------|
| Outer-diameter (jacket) | 5,2 mm |
|-------------------------|--------|

|                                   |       |
|-----------------------------------|-------|
| Tolerance outer diameter (sheath) | ± 5 % |
|-----------------------------------|-------|

|                          |     |
|--------------------------|-----|
| Material wire insulation | PVC |
|--------------------------|-----|

|              |   |
|--------------|---|
| Amount wires | 5 |
|--------------|---|

|                           |         |
|---------------------------|---------|
| Outer diameter insulation | 1,25 mm |
|---------------------------|---------|

|                                          |       |
|------------------------------------------|-------|
| Outer diameter tolerance core insulation | ± 5 % |
|------------------------------------------|-------|

|                                |                |
|--------------------------------|----------------|
| Shore hardness wire insulation | 45 ± 5 Shore D |
|--------------------------------|----------------|

|                                     |                    |
|-------------------------------------|--------------------|
| Material properties wire insulation | good machinability |
|-------------------------------------|--------------------|

|                                     |                                                  |
|-------------------------------------|--------------------------------------------------|
| Ingredient freeness wire insulation | lead-free, cadmium-free, CFC-free, silicone-free |
|-------------------------------------|--------------------------------------------------|

|                       |    |
|-----------------------|----|
| Amount strands (wire) | 19 |
|-----------------------|----|

|                          |         |
|--------------------------|---------|
| Diameter of single wires | 0,15 mm |
|--------------------------|---------|

|                               |          |
|-------------------------------|----------|
| Conductor crosssection (wire) | 0,34 mm² |
|-------------------------------|----------|

|                         |                            |
|-------------------------|----------------------------|
| Material conductor wire | Stranded copper wire, bare |
|-------------------------|----------------------------|

|                       |                |
|-----------------------|----------------|
| Conductor type (wire) | Strand class 5 |
|-----------------------|----------------|

|                         |       |
|-------------------------|-------|
| Nominal voltage AC max. | 300 V |
|-------------------------|-------|

|                                  |                   |
|----------------------------------|-------------------|
| Current load capacity (standard) | to DIN VDE 0298-4 |
|----------------------------------|-------------------|

|                                 |       |
|---------------------------------|-------|
| Current load capacity min. wire | 4,5 A |
|---------------------------------|-------|

|                                          |                 |
|------------------------------------------|-----------------|
| Electrical resistance line constant wire | 57 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 § 1100 FT2   UL 1581 § 1090  |
| 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                                  |