

**M12 female 90° A-cod. with cable**

PVC 3x0.75 bk 1.5m

Female 90°

M12, 3-pole

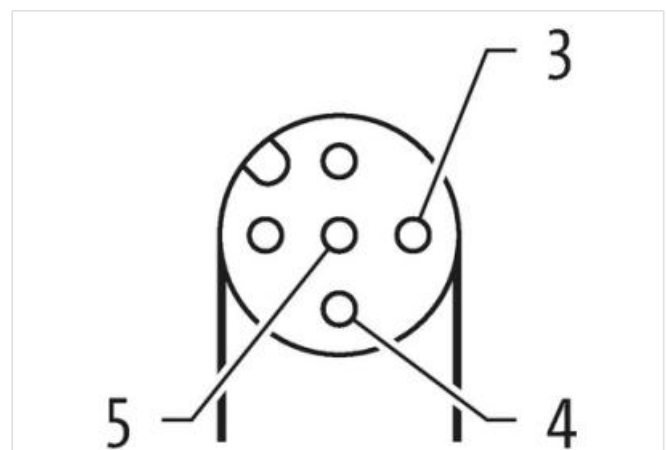
2× LED (PNP)

Invers-polarity protection

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.

Further cable lengths on request.

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

Product van afwijken van afbeelding



Cable length 1,5 m

**Side 1**

Tightening torque 0,6 Nm

De informatie in dit datablad is met de grootst mogelijke zorg samengesteld.  
Aansprakelijkheid beperkt tot grove nalatigheid voor de juistheid, volledigheid en actualiteit. Status: 2024-05-26

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|                                           |                   |
|-------------------------------------------|-------------------|
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Coding                                    | A                 |
| Material                                  | PUR               |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |

#### Commerciële gegevens

|                      |               |
|----------------------|---------------|
| ECLASS-6.0           | 27279218      |
| ECLASS-6.1           | 27279218      |
| ECLASS-7.0           | 27279218      |
| ECLASS-8.0           | 27279218      |
| ECLASS-9.0           | 27060311      |
| ECLASS-10.1          | 27060311      |
| ECLASS-11.1          | 27060311      |
| ECLASS-12.0          | 27060311      |
| ETIM-5.0             | EC001855      |
| Douane tarief nummer | 85444290      |
| GTIN                 | 4048879462150 |
| Verpakkingseenheid   | 1             |

#### Electrical data | Supply

|                                    |        |
|------------------------------------|--------|
| Operating voltage DC               | 24 V   |
| Operating voltage DC min.          | 20,4 V |
| Operating voltage DC max.          | 27,6 V |
| Current operating per contact max. | 4 A    |

#### Diagnostics

|                       |            |
|-----------------------|------------|
| Status indication LED | green, red |
|-----------------------|------------|

#### Installation | Connection

|              |         |
|--------------|---------|
| Mounting set | M12 x 1 |
|--------------|---------|

#### Device protection | Electrical

|                                        |                   |
|----------------------------------------|-------------------|
| Additional condition protection degree | inserted, screwed |
| Pollution Degree                       | 3                 |
| Rated surge voltage                    | 0,8 kV            |

#### Mechanical data | Material data

|                           |                  |
|---------------------------|------------------|
| Coating locking           | Nickeled         |
| Coating of fitting        | nickel plated    |
| Locking material          | Zinc die-casting |
| Material screw connection | Zinc die-casting |

#### Mechanical data | Mounting data

|                 |                                       |
|-----------------|---------------------------------------|
| Mounting method | inserted, screwed, Shaking protection |
|-----------------|---------------------------------------|

#### 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                                  |