



## GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Varistor and LED

### Technical Information

| Product Description |             |
|---------------------|-------------|
| Order Designation   | GDM21FX-XXX |



|                              |  |
|------------------------------|--|
| Description                  | Valve connector GDM series, type A, female connector, field attachable |
| RoHS-Compliant (2011/65/EU)  | Yes  |
| (Construction Type) Standard | DIN EN 175301-803-A  |
| Approvals                    | VDE, SEV   |
| Connectible Cables           | Ø 4.5 to 10 mm   |
| Conductor Size               | 0.25 x 1.5 mm <sup>2</sup>   |

| Technical Data              |                  |
|-----------------------------|------------------|
| No. of Pins                 | 2 + PE           |
| Ambient Temperature         | -25 °C to +90 °C |
| Housing/Grip/Screw Coupling | PA               |
| Contact Holder              | PA               |
| Contact                     | CuZn             |
| Central Screw               | 4.8, Fe/Zn B     |
| O-Ring Material             | SBR/NBR          |
| Flammability Class          | HB               |

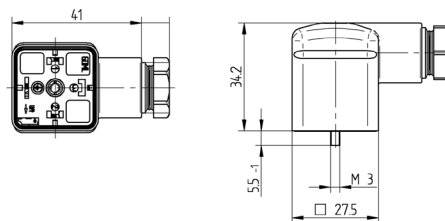
| Mechanical Data      |   |
|----------------------|---|
| Degree of Protection | IP65 (only when mated with Hirschmann/Lumberg counterparts) |
| Terminal Type        | Screw   |

| Electrical Data    |  |
|--------------------|--|
| Circuit            | Varistor with/without bridge rectifier, with/without capacitor |
| Contact Resistance | ≤ 4 mΩ   |
| Rated Voltage      | 24 V AC/DC, 48 V AC/DC, 120 V AC/DC, 230 V AC/DC               |
| Rated Current      | 10 A, 1 A (with bridge rectifier)                              |
| Pollution Degree   | 3  |

| Accessories                              |               |
|--|---------------|
| Scope of Delivery or Accessories (incl.) | Central screw |

|                                      |   |
|--------------------------------------|---|
| Accessories to be Ordered Separately | <p>Gasket:</p> <p>735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black<br/> 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown<br/> 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown<br/> 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown<br/> 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black<br/> 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown</p> <p>Central screw:</p> <p>732488002, knurled screw (gray), GDM 3011-7<br/> 734363001, stainless steel screw, GDM 3011 RF-1<br/> 735507002, torx screw, GDM 3011-18</p> |
|--------------------------------------|---|

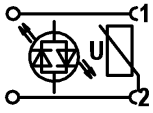
### Technical Drawing



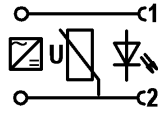
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## Circuit Diagram

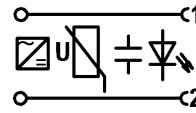
P-Code: V2



































P-Code: V4



P-Code: C4



## Order Information

| Order Designation | No. of Pins | Circuit   | Cable Gland | Rated Voltage | Rated Current | Characteristics   |
|-------------------|-------------|---|-------------|---------------|---------------|---|
| GDM21F6-V21       | 2 + PE      | yellow LED, varistor                              | M16 x 1.5   | 120 V AC/DC   | 10 A          | VDE     |
| GDM21F6-V24       | 2 + PE      | yellow LED, varistor                              | M16 x 1.5   | 24 V AC/DC    | 10 A          | VDE     |
| GDM21F6-V2Y       | 2 + PE      | yellow LED, varistor                              | M16 x 1.5   | 230 V AC/DC   | 10 A          | VDE     |
| GDM21FA-V21       | 2 + PE      | yellow LED, varistor                              | M20 x 1.5   | 120 V AC/DC   | 10 A          | VDE     |
| GDM21FA-V24       | 2 + PE      | yellow LED, varistor                              | M20 x 1.5   | 24 V AC/DC    | 10 A          | VDE     |
| GDM21FA-V2Y       | 2 + PE      | yellow LED, varistor                              | M20 x 1.5   | 230 V AC/DC   | 10 A          | VDE     |
| GDM21F6-V44       | 2 + PE      | yellow LED, varistor, bridge rectifier            | M16 x 1.5   | 24 V AC/DC    | 1 A           | VDE      |
| GDM21F6-V48       | 2 + PE      | yellow LED, varistor, bridge rectifier            | M16 x 1.5   | 48 V AC/DV    | 1 A           | VDE      |
| GDM21FA-V44       | 2 + PE      | yellow LED, varistor, bridge rectifier            | M20 x 1.5   | 24 V AC/DC    | 1 A           | VDE      |
| GDM21FA-V48       | 2 + PE      | yellow LED, varistor, bridge rectifier            | M20 x 1.5   | 48 V AC/DC    | 1 A           | VDE      |
| GDM21F6-C4Y       | 2 + PE      | yellow LED, varistor, bridge rectifier, capacitor | M16 x 1.5   | 230 V AC/DC   | 1 A           | VDE     |
| GDM21FA-C4Y       | 2 + PE      | yellow LED, varistor, bridge rectifier, capacitor | M20 x 1.5   | 230 V AC/DC   | 1 A           | VDE     |