



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, UL, with/without Protection Circuit

### Technical Information

| Product Description |   |  |
|---------------------|---|--|
| Order Designation   | GDMX1AX-AOU   | GDM21AX-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                    | UL, VDE, SEV, CSA   |  |
| Connectible Cables           | M16 x 1.5/PG9: Ø 6 to 8 mm; M20 x 1.5/PG11: Ø 8 to 10 mm; 1/2" NPTF/G1/2" ISO: Ø 8 to 10 mm |  |
| Conductor Size               | 0.25 x 1.5 mm <sup>2</sup>  |  |

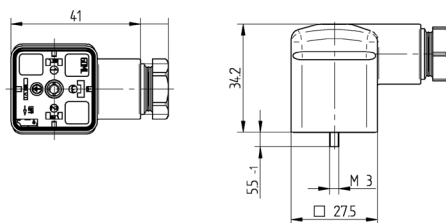
| Technical Data              |                                    |                                   |
|-----------------------------|------------------------------------|-----------------------------------|
| No. of Pins                 | 2 + PE, 3 + PE                     | 2 + PE                            |
| Ambient Temperature         | -40 °C to +125 °C, notice derating | -25 °C to +90 °C, notice derating |
| Housing/Grip/Screw Coupling | PA 66                              |                                   |
| Contact Holder              | PA                                 |                                   |
| Contact                     | CuZn                               |                                   |
| Central Screw               | 4.8, Fe/Zn B                       |                                   |
| O-Ring Material             | SBR/NBR                            |                                   |
| Flammability Class          | UL 94 5VA                          |                                   |

| Mechanical Data      |   |  |
|----------------------|---|--|
| Degree of Protection | IP67 (only when mated with Hirschmann/Lumberg counterparts) |  |
| Terminal Type        | Screw   |  |

| Electrical Data    |                  |  |
|--------------------|------------------|--|
| Circuit            | None             | Varistor, recovery diode with/without bridge rectifier |
| Contact Resistance | ≤ 4 mΩ           |  |
| Rated Voltage      | 300 AC/DC UL-CSA | 24 V AC/DC, 120 V AC/DC, 230 V AC/DC, 230 V DC         |
| Rated Current      | 10 A             | 10 A, 1 A (with bridge rectifier)                      |
| Pollution Degree   | 3                |  |

| Accessories                              |  |  |
|--|--|--|
| Scope of Delivery or Accessories (incl.) | Central screw  |  |
| Accessories to be Ordered Separately     | Gasket:<br>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<br><br>Central screw:<br>732488002, knurled screw (gray), GDM 3011-7<br>734363001, stainless steel screw, GDM 3011 RF-1<br>735507002, torx screw, GDM 3011-18 |  |

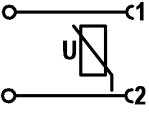
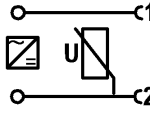
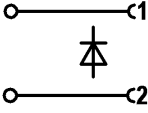
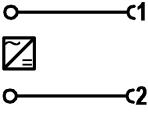
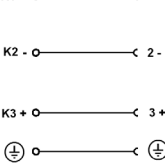
### Technical Drawing











Additional options available upon request.

# Be Certain with Belden

## Circuit Diagram

| P-Code: V1  | P-Code: V3  | P-Code: D1  | P-Code: D3   | P-Code: A0U  |
|---|---|---|--|--|
|  |  |  |  | <br>K1 + ◯ ———— < 1 +<br>K2 - ◯ ———— < 2 -<br>K3 + ◯ ———— < 3 +<br>⊕ ◯ ———— < ⊕ |

## Order Information

| Order Designation | No. of Pins | Circuit                    | Cable Gland             | Rated Voltage | Rated Current | Characteristics   |
|-------------------|-------------|----------------------------|-------------------------|---------------|---------------|---|
| GDM21AN-A0U-10F   | 2 + PE      | -                          | PG11 + strain relief    | 300 V AC/DC   | 10 A          |    |
| GDM21AJ-A0U-10F   | 2 + PE      | -                          | M16 + strain relief     | 300 V AC/DC   | 10 A          |    |
| GDM21AJ-V1U-10D   | 2 + PE      | Varistor                   | M16 + strain relief     | 230 V AC/DC   | 10 A          |    |
| GDM21AJ-V3U-10D   | 2 + PE      | Varistor, bridge rectifier | M16 + strain relief     | 230 V AC/DC   | 1 A           |   |
| GDM21AQ-A0U       | 2 + PE      | -                          | 1/2 NPTF +Strain Relief | 300 V AC/DC   | 10 A          |  |
| GDM31AL-A0U       | 3 + PE      | -                          | PG9 +Strain Relief      | 300 V AC/DC   | 10 A          |  |
| GDM31AN-A0U       | 3 + PE      | -                          | PG11 +Strain Relief     | 300 V AC/DC   | 10 A          |  |
| GDM31AQ-A0U       | 3 + PE      | -                          | 1/2 NPTF +Strain Relief | 300 V AC/DC   | 10 A          |  |