





## Technical Specifications

### Technical Data

|                                   |   |
|-----------------------------------|---|
| Product Family:                   | Valve Connectors                        |
| Product Sub Family:               | GDM Standard                            |
| Brand:                            | Hirschmann                              |
| Connector Type:                   | Field Attachable                        |
| Type of Contact / Gender:         | Female                                  |
| Connector Design:                 | Angled                                  |
| Number of Pins:                   | 2+PE (PE across cable outlet)           |
| Coding:                           | A                                       |
| Shielding:                        | Unshielded                              |
| Attachment Type:                  | Central Screw                           |
| Rated Voltage:                    | 250 V                                   |
| Rated Impulse Voltage:            | 4.0 kV                                  |
| Operating Voltage:                | 230 V AC/DC                             |
| Rated Current*:                   | 16 A                                    |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:                    | ≤ 50                                    |
| Type of Connection:               | Screw                                   |
| Cable Gland:                      | M16                                     |
| Conductor Cross Section:          | 0.25 - 1.5 mm <sup>2</sup>              |
| Suitable Cables:                  | Ø 4.5 - 9 mm                            |
| Ambient Temperature (Operation)*: | -40°C to +125°C                         |
| Protection Degree / IP Rating**:  | IP65                                    |
| Design Standard:                  | DIN EN 175301-803-A, ISO 4400           |
| Pollution Degree:                 | 3 acc. to DIN EN 60664-1 (VDE 0110-1)   |
| Clearance / Creepage Distance:    | DIN EN 60664-1 (2008/01); VDE 0110-1    |
| Overvoltage Category:             | III acc. to DIN EN 60664-1 (VDE 0110-1) |

### Materials

|                                      |                           |
|--------------------------------------|---------------------------|
| Contact Base Material:               | CuZn                      |
| Contact Plating:                     | Cu/Sn                     |
| Contact Bearer Material:             | PA GF                     |
| Contact Bearer Color:                | Black                     |
| Flammability Class (Contact Bearer): | UL 94 HB                  |
| Housing Material:                    | PA GF                     |
| Housing Color:                       | Grey                      |
| Flammability Class (Housing):        | UL 94 HB                  |
| Cable Gland Material:                | PA GF                     |
| Cable Gland Gasket:                  | NBR                       |
| Cable Gland Color:                   | Grey                      |
| Attachment Material:                 | Steel, Philips combi slot |
| Gasket Material:                     | Sold separately           |

### Additional Technical Data

|                                   |   |
|-----------------------------------|---|
| Fastening Torque (Contact Screw): | (40-50) Ncm for conductor size 0.5 - 1.5 mm <sup>2</sup> ; (30-40) Ncm for conductor size 0.38-0.34 mm <sup>2</sup> ; (25-30) Ncm for conductor size 0.25 mm <sup>2</sup> |
| Fastening Torque (Cable Gland):   | (250-375) Ncm   |
| Fastening Torque (Attachment):    | (50-60) Ncm   |

## Approvals

|      |     |
|------|-----|
| VDE: | Yes |
| SEV: | Yes |

## Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

## Notes

|                                     |  |
|-------------------------------------|--|
| Note Derating:                      | Notice derating  |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note:                               | Do not connect or disconnect under load.   |

## Variants

| Item #    | Item Description | Central Screw             | Gasket              | Packaging                                   | Replacement For                   |
|-----------|------------------|---------------------------|---------------------|---|-----------------------------------|
| 934888131 | GDM2166-A0U-10F  | 1- SteelScrew, Combi Head | 0 - Sold Separately | F - Collect packaging 200 pieces, assembled | ID: 934393106 Name: GDM 2016 grey |

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