



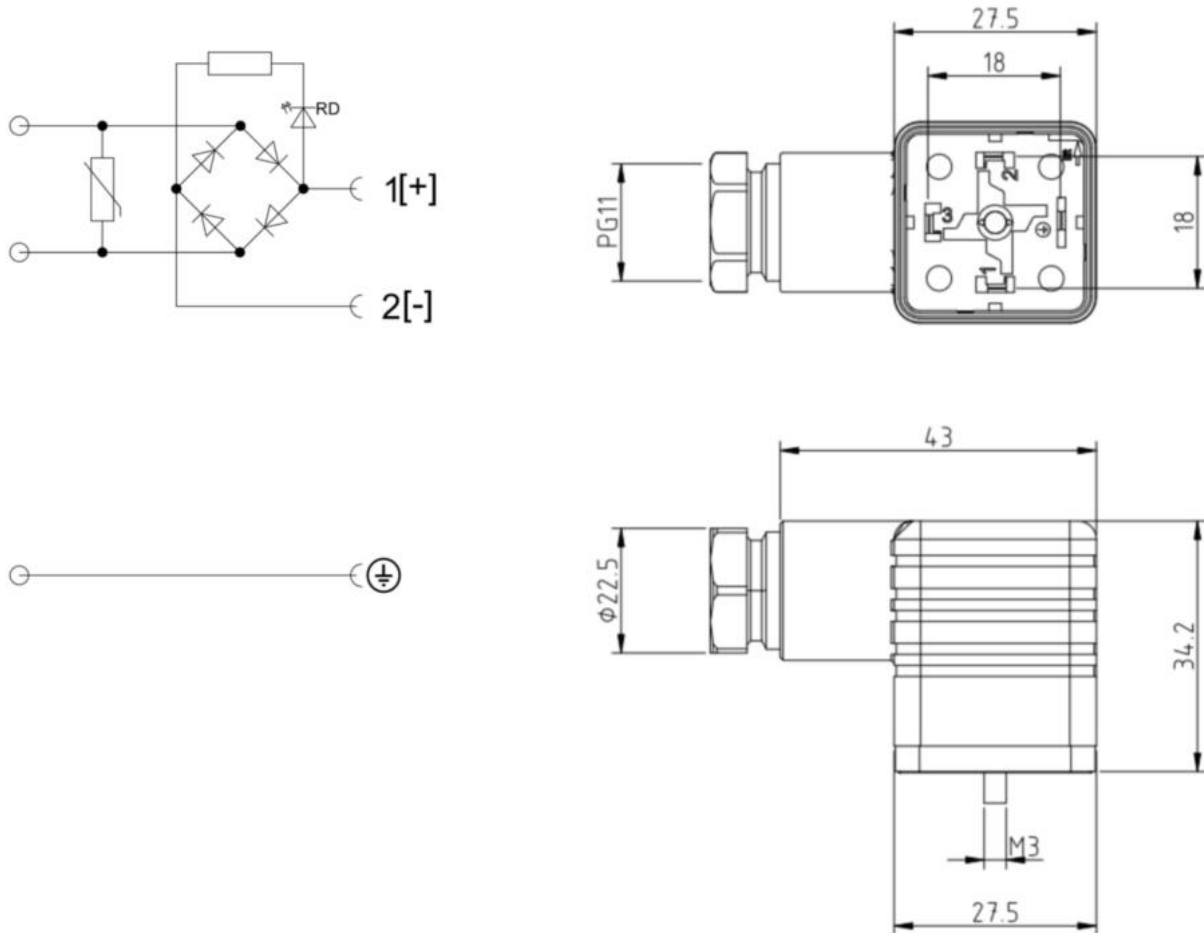
**Product:** [GDML 2011 GB1 LED 48 black](#) 

DIN Valve Connector, Form A, Field Attachable, 2+Ground, PG11, Translucent Housing, with Bridge Rectifier, LED, and Protective Circuit, 48 V

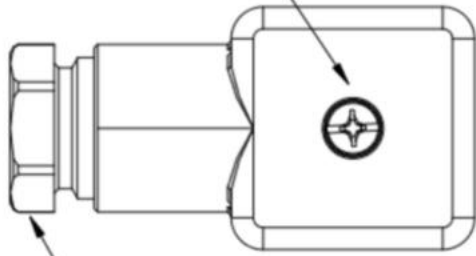
### Product Description

GDM - 175301-803 (DIN 43650), Form A, Female, 18mm, Translucent Housing, 2+Ground (Protective Earth). screw contacts, PCB with Bridge Rectifier, Red LED, and Varistor, 48 AC/DC, 1A, grey cable gland PG11 thread

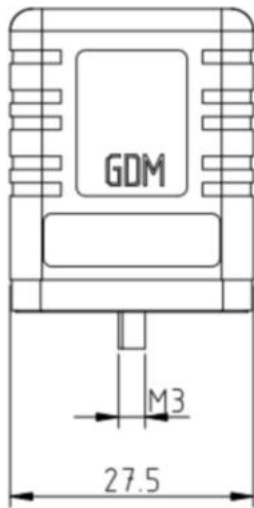
### Technical Drawing



Central Screw Torque value:  
[50-60] Ncm



Hex Nut Torque value:  
[250-375] Ncm



## Technical Specifications

### Technical data

|                           |                               |
|---------------------------|-------------------------------|
| Product Family:           | Valve Connectors              |
| Product Sub Family:       | GDM Legacy                    |
| 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:            | 48 V                          |
| Rated Impulse Voltage:    | 4.0 kV (PCBA 2.0 kV)          |
| Rated Current*:           | 1 A                           |
| Contact Resistance:       | ≤ 10 mOhm                     |
| Insulation Resistance:    | > 10 <sup>9</sup> Ohm         |
| Mating Cycles:            | ≤ 50                          |
| Cable Gland:              | PG11                          |
| Conductor Cross Section:  | 0.25 - 1.5 mm <sup>2</sup>    |
| Suitable Cables:          | Ø 6 - 9 mm                    |

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Ambient Temperature (Operation)*: | -40 °C - +80 °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 Color:                | Black                     |
| Flammability Class (Contact Bearer): | UL 94 HB                  |
| Housing Color:                       | Translucent               |
| Flammability Class (Housing):        | UL 94 HB                  |
| Cable Gland Material:                | PA GF                     |
| Cable Gland Gasket:                  | NBR                       |
| Cable Gland Color:                   | Black                     |
| Attachment Material:                 | Steel, Philips combi slot |
| Gasket Material:                     | Sold separately           |

Protection Circuitry

|                     |          |
|---------------------|----------|
| Function Indicator: | Red LED  |
| Protective Circuit: | Varistor |

Additional Technical Data

|                                   |                                                                                                                                                                       |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fastening Torque (Contact Screw): | (40-50) Ncm for conductor size 0.25 - 1.5 mm <sup>2</sup> ; (30-40) Ncm for conductor size 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. |

Variants

| Item #    | Item Description           | Central Screw              | Gasket              | Packaging                                  |
|-----------|----------------------------|----------------------------|---------------------|--------------------------------------------|
| 933925212 | GDML 2011 GB1 LED 48 black | 1- Steel Screw, Combi Head | 0 - Sold Separately | D - Collect packaging 50 pieces, assembled |

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