



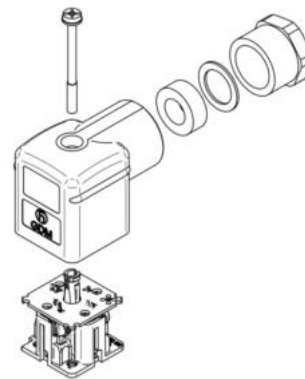
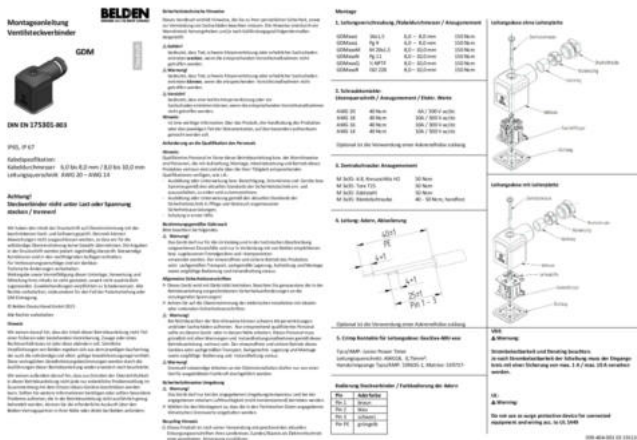
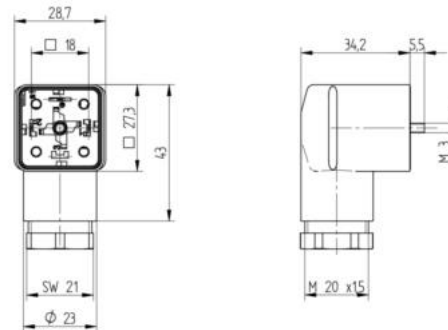
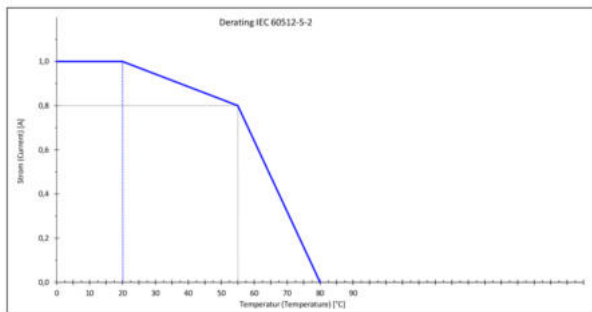
**Product:** [GDM21FA-D48-10D](#) 

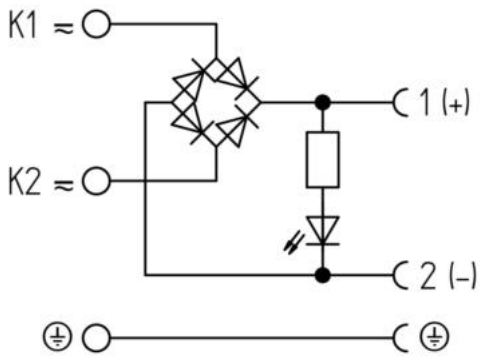
GDM Standard DIN Standard Field Attachable Connector: Form A, 3-pin (2+1PE; PE across cable outlet), transparent housing, screw type, M20; with bridge rectifier and yellow LED, 48 V AC/DC, 1 A

## Product Description

GDM Standard DIN Standard Field Attachable Connector: Form A, 3-pin (2+1PE; PE across cable outlet), transparent housing, screw type, M20; with bridge rectifier and yellow LED, 48 V AC/DC, 1 A

## Technical Drawing





# 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 Impulse Voltage:            | 4.0 kV (PCBA 2.0 kV)                    |
| Operating Voltage:                | 48 V AC/DC                              |
| Rated Current*:                   | 1 A                                     |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:                    | ≤ 50                                    |
| Type of Connection:               | Screw                                   |
| Cable Gland:                      | M20                                     |
| Conductor Cross Section:          | 0.25 - 1.5 mm²                          |
| Suitable Cables:                  | Ø 4.5 - 11 mm                           |
| Ambient Temperature (Operation)*: | -25°C to +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 Material:             | PA GF       |
| Contact Bearer Color:                | black       |
| Flammability Class (Contact Bearer): | UL 94 HB    |
| Housing Material:                    | PA GF       |
| 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: | Yellow LED |
| Bridge Rectifier:   | yes        |

Additional Technical Data

|                                   |                                                                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Fastening Torque (Contact Screw): | (40-50) Ncm for conductor size 0.25 - 1.5 mm²; (30-40) Ncm for conductor size 0.34 mm²; (25-30) Ncm for conductor size 0.25 mm² |
| Fastening Torque (Cable Gland):   | (150-200) 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 |
|-----------|------------------|
| 934888051 | GDM21FA-D48-10D  |

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