



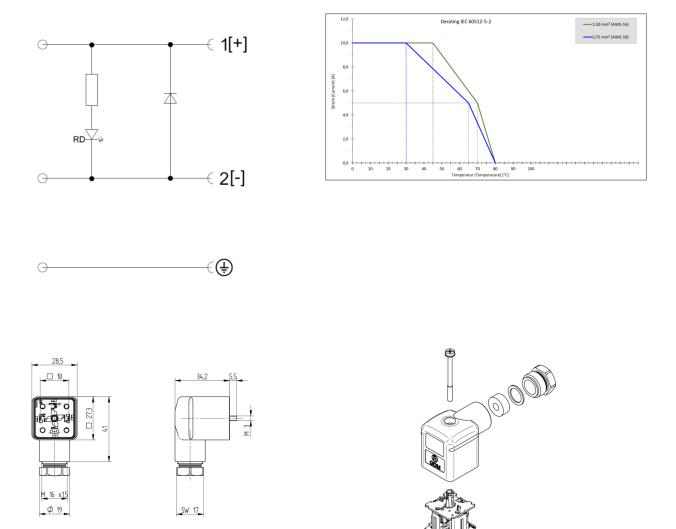
Product: <u>GDM21F9-D2C-10D</u> [□]

DIN Valve Connector, Form A, Field Attachable, 2+Ground, PG 9, Translucent Housing, with LED and Protective Circuit, 24 V

Product Description

GDM - 175301-803 (DIN 43650), Form A, Female, 18mm, Translucent Housing, 2+Ground (Protective Earth). screw contacts, PCB with Red LED and Diode, 24 V DC, 8A, black cable gland PG9 thread

Technical Drawing



Technical Data

| Product Family:Valve ConnectorsProduct Sub Family:GDM StandardBrand:HirschmannConnector Type:Field AttachableType of Contact / Gender:Field AttachableConnector Design:AngledNumber of Pins:Parle (E across cable outlet)Coding:ACoding:AContact Yope:Valve GraveSteidding:Contal ScrewRated Voltage:A/VRated Inpulse Voltage:A/VVoltage:A/VRated Inpulse Voltage:A/VStandard ScrewScrewRated Inpulse Voltage:A/VOrdard ScrewScrewRated Inpulse Voltage:A/VAndort ScrewScrewRated Current**D/AStalabe Carrent**Sin OnhonInsulation Resistance:Sin OnhonInsulation Resistance:Sin OnhonStalabe CarlestSin OnhonConductor Cross Section:Sic Sin | | |
|--|-----------------------------------|---|
| BradiHischmanConector Type:Field AttachableConector Segin:FinaleConector Design:AlgedNumber of Pins:SPE (PE across cable outlet)Coding:ASheidelin:InshiededSheidelin:Sender Secolar Seco | Product Family: | Valve Connectors |
| AndConnector SpeiFindameConnector SpeiAgleConnector SpeinAgleNumber of PinsAPE (PE across cable outlet)Coding:AShidking:InshieldedShidking:ShidkingAttachmen Type:Contral ScrewRaded Voltage:AVAttachment Type:AVShidking:Avit (PCBA 2.0 kV)Raded Voltage:AVAttachment Type:ShidkingAttachment Type:AVRaded Notage:AVAttachment Type:ShidkingAttachment Type: <t< td=""><td>Product Sub Family:</td><td>GDM Standard</td></t<> | Product Sub Family: | GDM Standard |
| Type of Condct / Gender:FendeConnector Design:AjeleNumber of Pins:2+PE (PE across cable outlet)Coding:AShielding:NubledShielding:VinbleddeAtachmen Type:0Atachmen Type:4/VRade Voltage:4/VRade Voltage:4/VContact Resistance:10AContact Resistance:10ANubled Colonce10*OMang Cycles:0Solding:0 <trr>Solding:0Soldin</trr> | Brand: | Hirschmann |
| Connector Design:AngledNumber of Pins:2+PE (PE across cable outlet)Coding:AShielding:UnbieldedAttachment Type:Contral ScrewRaded Voltage:4/VRaded Voltage:0.kV (PCBA 2.0 kV)Operating Voltage:0.kV (PCBA 2.0 kV)Contact Resistance:10.ANumber of Pins:10.ANumber of Voltage:10.AContact Resistance:10.PNumber of Pins:50.PContact Resistance:9.9Contact Resistance:0.9Contact Resistance:0.9Stability Operation:5.0Stability Operation:0.9Contact Resistance:0.9Contact Resistance:0.9Stability Operation:0.9Stability Operation:0.9Conductor Cross Section:0.5Stability Contaction:0.5Orductor Cross Section:0.5Orductor Cross Section:0.5Orductor Degree / IP Rating:IPSOrductor Cross Section:0.5Orductor Cross Section:0.5Orductor Degree / IP Rating:IPSOrductor Degree:0.5Orductor Cross Section:0.5Orductor Cross Se | Connector Type: | Field Attachable |
| Number of Pins:2+PE (PE across cable outlet)Coding:ACoding:InsiledidedShielding:UnsiledidedAttachment Type:Central ScrewRated Voltage:24 VRated Voltage:4.0kV (PCBA 2.0 kV)Operating Voltage:24 V DCRated Current*:10 AContact Resistance:5.10mOnInsulation Resistance:5.0Yoe Of Connection:5.0Conduct Orsos Section:0.9Operating Voltage:0.9Conduct Cross Section:0.5.15mm*Sultable Cables:0.5.15mm*Sultable Cables:0.5.15mm*Soltable Cabl | Type of Contact / Gender: | Female |
| Coding:ACoding:UnshieldedAttachment Type:Central ScrewRated Voltage:24 VRated Joulage Voltage:40 kV (PCBA 2.0 kV)Operating Voltage:24 VDCRated Current*:10 AContac Resistance:10 nohmInsulation Resistance:50Yope of Connection:50Conduct Or Coss Section:05-15 nm*Suitable Cables:04.5 nm*Ambient Temperature (Operating Voltage):05-15 nm*Protection Degree / IP Rating*:165Portection Degree / IP Rating*:105Polution Degree:0000001; VDE 0110-11Cierance / Creepage Distance:0000001; VDE 0110-1 | Connector Design: | Angled |
| Shielding:UnshieldedAttachment Type:Central ScrewRaded Voltage:24 VRaded Inpulse Voltage:0.0 KV (PCBA 2.0 KV)Operating Voltage:24 V DCRaded Current*:0.4 A0 A3.0 MContact Resistance:10.4Insulation Resistance:>10.9 OnmMating Cycles:5.07 per of Connection:Screw, M3X35Conduct Cross Section:0.5 1.5 mm²Anbient Temperature (Operature)9.6 CAnbient Temperature (Operature)9.6 CProtection Degree / IP Rating*196Potention Degree / IP Rating*19.6 NIN STOAL ROSAL | Number of Pins: | 2+PE (PE across cable outlet) |
| Attachment Type:Central ScrewRated Voltage:4VRated Impulse Voltage:40 kV (PCBA 2.0 kV)Operating Voltage:40 kV (PCBA 2.0 kV)Rated Current*:04Ondact Resistance:10 nOhmInsulation Resistance:>10*9 OhmMating Cycles:50Type of Connection:Screw, M3x35Conduct Orcos Section:0.5 1.5 nm*Suitable Cables:2.5 0.5 nm*Ambient Temperature (Operature)F65Protection Degree / IP Rating*:F65Design Standard:NEN 175301-803.4. ISO 4400Polution Degree:3ac. to DIN EN 60664.1 (VDE 0110-1)Cierance / Creepage Distance:IN EN 60664.1 (VDE 0110-1) | Coding: | A |
| Rad Voltage:24 VRade Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V DCRade Current*:10 AContact Resistance:5.0 mOnInsulation Resistance:>10*9 OhmMating Cycles:5.0Type of Connection:6.0Conductor Cross Section:0.5 - 1.5 mm²Suitable Cables:0.5 - 1.5 mm²Anbient Temperature (Operation):9.6 CPrefetor Degree // P Rating*:10.5 CPolution Degree:0.5 NENTSO160401Polution Degree:0.5 NENTSO160401Contact Cross Definition:0.5 NENTSO160401Polution Degree:0.5 NENTSO160504100Polution Degree:0.5 NENTSO160504101501001Corance / Croepage Distance:0.5 NENTSO1601011; VDE 0110-1 | Shielding: | Unshielded |
| Rated Impulse Voltage:4.0 kV (PCBA 2.0 kV)Operating Voltage:24 V DCRated Current*:10.4Contact Resistance:3.0 nOhmInsulation Resistance:>10.9 OhmMating Cycles:>50Zype of Connection:Scow, M3x35Conduct Cross Section:0.5 - 1.5 ma ² Suitable Cables:0.4 - 5.9 maAnbient Temperature (Operation):Sco ⁵ C + 80°CPretection Degree / IP Rating*:IPSPolution Degree:0.5 non Scottage 1.0 monFolduton Degree:MINE N175301-803-A, ISO 4400Clearance / Creepage Distance:INIE N166664.1 (VDE 0110-1) | Attachment Type: | Central Screw |
| Operating Voltage:24 V DCRated Current*:10 AContact Resistance:> 10 mOhmInsulation Resistance:> 10^9 OhmMating Cycles:> 50Yop of Connection:Scow, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 15 mm²Suitable Cables:04.5 - 9 mmAmbient Temperature (Operations):25° C - +80°CProtection Degree / IP Rations*:PG5Polution Degree:0.15 NITSO1-803-A, ISO 4400Polution Degree:IN EN 06664-1 (VDE 0110-1)Clearance / Creepage Distance:IN EN 06664-1 (2080/1); VDE 0110-1 | Rated Voltage: | 24 V |
| Rated Current*10 ARated Current*10 AContact Resistance:<10 nOhm | Rated Impulse Voltage: | 4.0 kV (PCBA 2.0 kV) |
| Contact Resistance:Solonact Resistance:> 10°9 OhmInsulation Resistance:> 10°9 OhmMating Cycles:< 50 | Operating Voltage: | 24 V DC |
| InstantionFormationInsulation Resistance:> 10*9 OhmMating Cycles:≤ 50Type of Connection:Screw, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:Ø 4.5 - 9 mmAmbient Temperature (Operation):25° C + 80°CProtection Degree / IP Rations*IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree:3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2080/01); VDE 0110-1 | Rated Current*: | 10 A |
| Adding Cycles: Solution Mating Cycles: ≤ 50 Type of Connection: Scew, M3x35 Cable Gland: PG9 Conductor Cross Section: 0.25 1.5 mm² Suitable Cables: Ø4.5 - 9 mm Ambient Temperature (Operature): Sc °c + 80 °C Protection Degree / IP Rating: IP65 Design Standard: DIN EN 175301-803-A, ISO 4400 Pollution Degree: Sacc to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1 | Contact Resistance: | ≤ 10 mOhm |
| Type of Connection:Screw, M3x35Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:0.4.5 - 9 mmAmbient Temperature (Operation)*-25 °C - +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree.3 acc. to DIN EN 6064-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 6064-1 (2008/01); VDE 0110-1 | Insulation Resistance: | > 10^9 Ohm |
| Cable Gland:PG9Conductor Cross Section:0.25 - 1.5 mm²Suitable Cables:04.5 - 9 mmAmbient Temperature (Operation):-25 °C - +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree.3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2008/01); VDE 0110-1 | Mating Cycles: | ≤ 50 |
| ActionActionConductor Cross Section:0.25 · 1.5 mm²Suitable Cables:Ø 4.5 · 9 mmAmbient Temperature (Operation)*-25 °C · +80 °CProtection Degree / IP Rating**:IP65Design Standard:DIN EN 175301-803-A, ISO 4400Pollution Degree:3 acc. to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:DIN EN 60664-1 (2008/01); VDE 0110-1 | Type of Connection: | Screw, M3x35 |
| Suitable Cables: Ø 4.5 - 9 mm Ambient Temperature (Operation)* -25 °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 | Cable Gland: | PG9 |
| Ambient Temperature (Operation)* -25 °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 | Conductor Cross Section: | 0.25 - 1.5 mm ² |
| 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 | Suitable Cables: | Ø 4.5 - 9 mm |
| 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 | Ambient Temperature (Operation)*: | -25 °C - +80 °C |
| Pollution Degree: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1 | Protection Degree / IP Rating**: | IP65 |
| Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1 | Design Standard: | DIN EN 175301-803-A, ISO 4400 |
| | Pollution Degree: | 3 acc. to DIN EN 60664-1 (VDE 0110-1) |
| Overvoltage Category: III 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: | Red LED |
|---------------------|---------|
| Protective Circuit: | Diode |

Additional Technical Data

| Fastening Torque (Contact Screw): | (40-50) Ncm for conductor size 0.25 - 1.5 mm ² ; (30-40) Ncm for conductor size 0.34 mm ² ; (25-30) Ncm for conductor size 0.25 mm ² |
|-----------------------------------|---|
| 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 |
| Note Derating: Protection Degree / IP Rating Note: | Notice derating ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |

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