



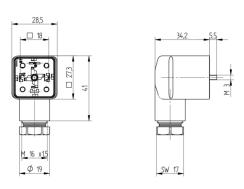
Product: GDM210B-D1U-10D ☑

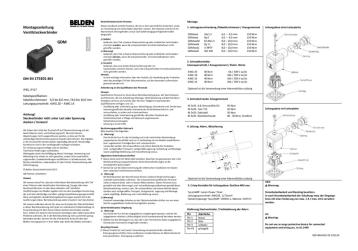
Form A, 18mm - Female 90° | #Contacts: 2+Ground (PE), Screw Type | Recovery Diode (FRD) | 250 V | Black Housing, Black PG11 Cable Gland | Included: Central Screw | Bulk Packaging

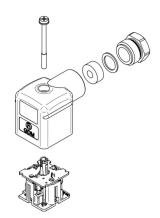
Product Description

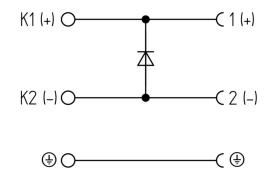
Form A, 18mm - Female Angled | #Contacts: 2+Ground (PE), Screw Type | Recovery Diode (FRD) | 250 V / 10A | Black Housing, Black PG11 Cable Gland | Included: Central Screw | Bulk Packaging

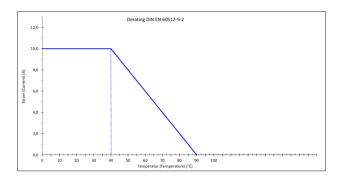
Technical Drawing











Technical Specifications

Product Life Cycle

	Availability:	Active
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Technical Data

Product Sur Family: Valve Connector Product Sub Family: Mischaman Bradi: Hischmann Connector Type: Field attachable Connector Sub Type: Field attachable Connector Sub Type: Form A Type of Contact Gender: Angles (80°) 80d Connector Design: Angles (80°) 80d Number of Prise: 2 PPE (PE carcas cable outlet) Coding: A Sielding: Anshelded Attachment Type: Certain Screw, M 3 x 35 Act Carcas Cable outlet) Rated Voltage: 350 V Act Carcas Cable outlet) Rated Voltage: 30 VC Act Carcas Cable outlet) Rated Voltage: 30 VC Act Carcas Cable outlet) Rated Carcas: 10 Month Act Carcas Cable Outlet 10 Month Rated Carcas: 10 PO Som Act Carcas Cable Outlet 10 PO Som Rating Cycles: 5 Con Institute Cable Outlet 5 Condender Carcas Cable Outlet 7 Condender Carcas Cable Outlet <t< th=""><th></th><th></th></t<>		
Brand: Hirschmann Connector Type: Field attachable Connector Sub Type: Form A Type of Contact / Gender: Socket Contacts / Female Connector Design: Angled (90°) Body Number of Pins: 2 PPE (PE across cable outlet) Coding: A Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 230 V DC Rated current*: 10 A Contral Resistance: 2 10 mOhm Insulation Resistance: 5 10 mOhm Insulation Resistance: 5 10 mOhm Insulation Resistance: 5 10 mOhm Insulation Resistance: 9 10 m Connection: Cable Gland: PG 11 Triced Size: PG 11 Conductor Cross Section: 0 25 - 1.5 mm² Suitable Cables: 0 4.5 - 1 mm² Ambient Temperature (Operation)*: 10 % Con + 125 * C [connector] - 30 * C to + 90 * C [when mated with NBR gaskel] - 15 * C to + 125 * C [when mated with PC gasket] Protection Degree / IP Ratury*: 10 *	Product Family:	Valve Connectors
Connector Type: Field attachable Connector Sub Type: Form A Type of Contact / Gender: Socket Contacts / Fenale Connector Design: Angled (90°) Body Number of Pins: 2+PE (PE across cable outlet) Coding: A Shelding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 230 V DC Rated Impulse Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: 5 10 mOhm Insulation Resistance: 5 10 mOhm Making Cycles: 5 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor: 25 - 1.5 mm² Suitable Cables: 0 4.5 - 1.1 mm Ambient Temperature (Operation)*: 240 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with FPOM or MFQ gasket] Protection Degree / IP Rating**: 186 Design Standar	Product Sub Family:	GDM Standard
Connector Sub Type: Form A Type of Contact / Gender: Socket Contacts / Female Connector Design: Angled (90") Body Number of Pins: 2 PPE (PE across cable outlet) Coding: A Shieding: Unshieded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 40 K/ (PCBA 20 KV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: 10°9 Ohm Mating Cycles: 45°5 Type of Consclon: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conduct Cross Section: 225 - 1.5 mm² Suitable Cables: 240** (1o+125**C[Connector]-30**Clo+90**C[when mated with NBR gasket]-15**Clo+125**C[when mated with FKM gasket]-40**Clo+125**C[when mated with FPDM or MPQ gasket] Protection Degree / IP 30°**Colon Extra	Brand:	Hirschmann
Type of Contact / Gender Socket Contacts / Female Connector Design: Angled (90") Body Number of Pins: 2+PE (PE across cable outlet) Coding: A Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 40 kV (PCBA 2.0 kV) Operating Voltage: 30 v DC Rated Current: 10 A Contact Resistance: > 10"90 bm Insulation Resistance: > 10"90 bm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: 0.45 - 1.1 mm² Ambient Temperature (Operation): 4.0° C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with EPDM or MPQ gasket] Protection Degree IP Ratling* IP65 Design Standart: DIN EN 175301-803-A, ISO 4400 Pollution Degree: 3 acc. to DIN EN 60664-1 (V	Connector Type:	Field attachable
Connector Design: Angled (90°) Body Number of Pins: 2+PE (PE across cable outlet) Coding: A Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: > 10.0 Mom Insulation Resistance: > 10.99 Ohm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25-1.5 mm² Suitable Cables: 0.45-1.5 mm² Ambient Temperature (Operation)*: 2-40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PPOM on MPO gasket] Poliution Degree: 3 acc. to DIN EN 175301-803-A, ISO 4400 Poliution Degree: 3 acc. to DIN EN 66664-1 (2008/01); VDE 0110-1)	Connector Sub Type:	Form A
Number of Pins: 2*PE (PE across cable outlet) Coding: A Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 250 V Rated Impulse Voltage: 230 V DC Rated Current: 10 A Contact Resistance: \$ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: 0.4.5 - 11 mm Ambient Temperature (Operation)*: -40 * C to + 125 * C [connector] - 30 * C to + 90 * C [when mated with NBR gasket] - 15 * C to + 125 * C [when mated with FKM gasket] - 40 * C to + 125 * C [when mated with Protection Degree / IP Rating***: Protection Degree / IP Rating***: P65 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 (VDE 0110-1)	Type of Contact / Gender:	Socket Contacts / Female
Coding: A Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: \$ 10 mOhm Insulation Resistance: > 10°9 Ohm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: 0.4.5 - 11 mm Ambient Temperature (Operation)*: -40° Cto + 125° C [Connector] - 30° Cto + 90° C [when mated with NBR gasket] - 15° C to + 125° C [when mated with FKM gasket] - 40° C to + 125° C [when mated with FPDM or MPQ gasket] 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 (VDE 0110-1)	Connector Design:	Angled (90°) Body
Shielding: Unshielded Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: \$ 10 mOhm Insulation Resistance: > 10°9 Ohm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: 0.4.5 - 11 mm Ambient Temperature (Operation)**: -40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with FPM gasket] - 15 °C to + 125 °C [when mated with FRM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with FPM gasket] - 10 °C to + 125 °C [when mated with PPM gasket] - 10 °C to	Number of Pins:	2+PE (PE across cable outlet)
Attachment Type: Central Screw, M 3 x 35 Rated Voltage: 250 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: \$10 mOhm Insulation Resistance: \$10 mOhm Insulation Resistance: \$10 ° 9 Ohm Mating Cycles: \$50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 1.1 mm Ambient Temperature (Operation)*: PC to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PC to + 125 °C	Coding:	A
Rated Voltage: 250 V Rated Impulse Voltage: 4.0 kV (PCBA 2.0 kV) Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10*9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25-1.5 mm² Suitable Cables: Ø 4.5-11 mm Ambient Temperature (Operation)*: ±0° C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with EPDM or MPQ gasket] 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 (VDE 0110-1)	Shielding:	Unshielded
Rated Impulse Voltage:	Attachment Type:	Central Screw, M 3 x 35
Operating Voltage: 230 V DC Rated Current*: 10 A Contact Resistance: \$ 10 mOhm Insulation Resistance: \$ 10 mOhm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: P65 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	Rated Voltage:	250 V
Rated Current*: 10 A Contact Resistance: \$10 mOhm Insulation Resistance: >10^9 Ohm Mating Cycles: \$50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: PC to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PC gasket] 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	Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Contact Resistance: \$ 10 mOhm Insulation Resistance: \$ 10^9 Ohm Mating Cycles: \$ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: PDM or MPQ gasket] Protection Degree / IP Rating**: IP65 Design Standard: DIN EN 175301-803-A, ISO 4400 Pollution Degree: 3 acc. to DIN EN 60664-1 (2008/01); VDE 0110-1 Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Operating Voltage:	230 V DC
Insulation Resistance: > 10°9 Ohm Mating Cycles: ≤ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: EPDM or MPQ gasket] 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	Rated Current*:	10 A
Mating Cycles: ≤ 50 Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: POPM of MPQ gasket] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PFDM of MPQ gasket] 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	Contact Resistance:	≤ 10 mOhm
Type of Connection: Screw terminal Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: PDM or MPQ gasket] - 40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PFKM gasket] - 40 °C to + 12	Insulation Resistance:	> 10^9 Ohm
Cable Gland: PG 11 Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: PDM or MPQ gasket] - 40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PFM gasket] - 40 °C to + 125 °C [when mated with	Mating Cycles:	≤ 50
Thread Size: PG 11 Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: PDM or MPQ gasket] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PFM gasket] -	Type of Connection:	Screw terminal
Conductor Cross Section: 0.25 - 1.5 mm² Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: 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:	PG 11
Suitable Cables: Ø 4.5 - 11 mm Ambient Temperature (Operation)*: -40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with FK	Thread Size:	PG 11
Ambient Temperature (Operation)*: -40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PKM gasket] - 40 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with PKM gasket] - 40 °C to + 125 °C [w	Conductor Cross Section:	0.25 - 1.5 mm ²
(Operation)*: EPDM or MPQ gasket] 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 - 11 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)*:	- 40 °C to + 125 °C [Connector] - 30 °C to + 90 °C [when mated with NBR gasket] - 15 °C to + 125 °C [when mated with FKM gasket] - 40 °C to + 125 °C [when mated with EPDM or MPQ gasket]
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:	Brass (CuZn)
Contact Plating:	Copper-Tin Alloy (Cu/Sn)
Contact Bearer Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Contact Bearer Color:	Black

Flammability Class (Contact Bearer):	UL 94 HB
Housing Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Housing Color:	Black
Flammability Class (Housing):	UL 94 HB
Cable Gland Material:	Glass-Fiber Reinforced Polyamide (PA GF)
Cable Gland Gasket:	Nitrile Butadiene Rubber (NBR)
Cable Gland Color:	Black
Flammability Class (Cable Gland):	UL 94 HB
Attachment Material:	Steel Fastener (4.8, Fe/Zn B)
Gasket Material:	Sold separately

Protection Circuitry

Protective Circuit:	Recovery Diode (FRD)

Additional Technical Data

Fastening Torque (Contact Screw):	(40-50) Ncm for conductor size 0.5 - 1.5 mm²; (30-40) Ncm for conductor size 0.38-0.34 mm²; (25-30) Ncm for conductor size 0.25 mm²
Fastening Torque (Cable Gland):	(250-375) Ncm
Fastening Torque (Attachment):	(50-60) Ncm

Approvals

VDE:	VDE-RegNr.: E349
SEV:	Yes

Safety & Environmental Compliance

REACH:	Yes
RoHS Compliant:	Compliant

Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note:	Do not connect or disconnect under load.

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