



GDM Standard DIN Standard Field Attachable Connector: Form A, 3-pin (2+1PE; PE across cable outlet), transparent housing, screw type, PG11; with recovery diode and yellow LED, 24 V DC, 10 A

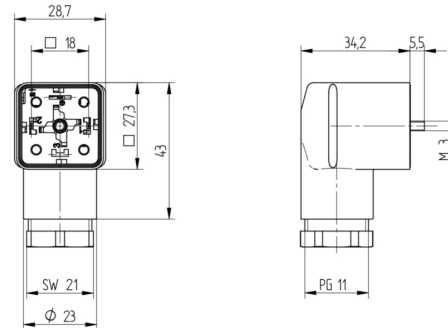
Derating IEC 60512-5-2

Legend:

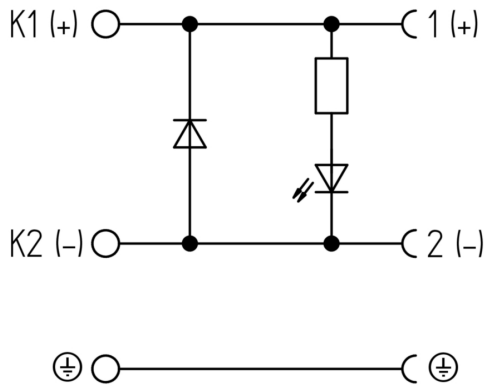
- 1.50 mm² (AWG 16)
- 0.75 mm² (AWG 18)

The graph plots Current (A) on the Y-axis (0.0 to 12.0) against Temperature (Temperature) [°C] on the X-axis (0 to 100). The 1.50 mm² (AWG 16) conductor (green line) maintains a current of 10.0 A up to 45°C, then derates linearly to 5.0 A at 75°C, and finally drops to 0.0 A at 85°C. The 0.75 mm² (AWG 18) conductor (blue line) maintains a current of 10.0 A up to 30°C, then derates linearly to 5.0 A at 65°C, and finally drops to 0.0 A at 75°C. A horizontal dashed line at 5.0 A intersects the derating curves for both conductors.

Temperature [°C]	Current (A) - 1.50 mm² (AWG 16)	Current (A) - 0.75 mm² (AWG 18)
0	10.0	10.0
30	10.0	10.0
45	10.0	9.0
65	8.0	5.0
75	5.0	0.0
85	0.0	-







# Technical Specifications

## Product Life Cycle

Availability:	Active
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## 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:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V DC
Rated Current*:	10 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 50
Type of Connection:	Screw
Cable Gland:	PG11
Conductor Cross Section:	0.25 - 1.5 mm <sup>2</sup>
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
Protective Circuit:	Recovery diode

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):	(250-375) Ncm
Fastening Torque (Attachment):	(50-60) Ncm

Approvals

VDE:	Yes
SEV:	Yes

Safety & Environmental Compliance

RoHS Compliant:	Yes
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Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	Protection Degree and IP Rating per test standard IEC 60529 using a Hirschmann / Lumberg Automation mating product
Note:	Do not connect or disconnect under load.

Variants

Item #	Item Description	Central Screw	Gasket	Packaging	Replacement For
18693	GDM21FB-D24-10D	1- Steel Screw, Combi Head	0 - Sold Separately	D - Collect packaging 50 pieces, assembled	ID: 932640002 Name: GDML 2011 LED 24 HH YE bk

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