



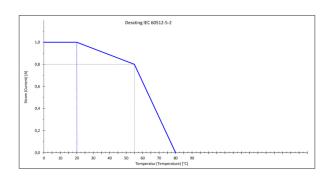
Product: GDM21FA-D48-10D ☐

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

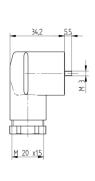
### **Product Description**

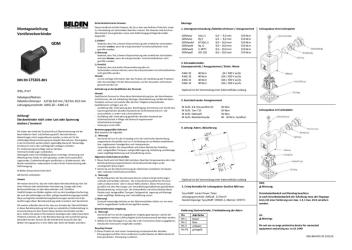
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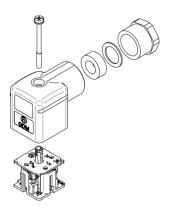
### **Technical Drawing**

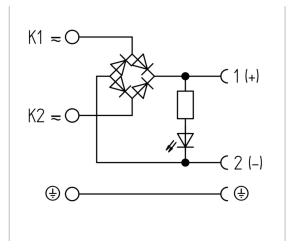












# **Technical Specifications**

## **Technical Data**

Product Family:	Valve Connectors	
Product Sub Family:	GDM Standard	
Brand:	Hirschmann	
Connector Type:	ield 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*:	1A	
Contact Resistance:	≤ 10 mOhm	
Insulation Resistance:	> 10^9 Ohm	
Mating Cycles:	≤ 50	
Type of Connection:	Screw	
Cable Gland:	M20	
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
Bridge Rectifier:	yes

### **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
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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