



HIRSCHMANN

A **BELDEN** BRAND

New Product Bulletin

NP 1004HE

Hirschmann™ GDMF Connectors

GDMF – new generation of Hirschmann™ brand field attachable valve connectors in a flat and ergonomic design with compact dimensions as well as ultimate resistance to vibration and shock



Hirschmann™ GDMF Valve Connectors – Low-height Space- saving Design with Proven Combi-Contact

The new generation of Hirschmann™ GDMF field attachable rectangular valve connectors is a strong addition to our already broad product portfolio. The proven technology is now brought to market in an extremely flat and ergonomic design, which meets the ever growing demand for highly compact rectangular connectors.

With a height of just 26 mm, the rectangular connectors in protection class IP65/IP67 have a perfect fit in any given application. To guarantee the highest requirements of resistance to vibration and shock, the new GDMF range also features the patented combi-contact known from the proven GDM series. The contact is designed for a wide range of cable gauges up to 1.5 mm² with diameters from 4.5 to 8 mm (in a UL approved version from 4.0 to 6.7 mm).

Versatile Product with Multiple Options

The new valve connectors are available with or without electronic insert with three or four contacts (2+PE or 3+PE). A captive seal and non-slip surfaces on both sides provide for ease of assembly and disassembly. In addition, the standard versions can be used within a temperature range from -40°C to +85°C.



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The new GDMF: Low Height combined with Best Performance

Compatibility and Wider Range of Use

The Hirschmann™ GDMF valve connectors are compatible with all appliance connectors according to EN 175301-803 type A. The use of this solution is recommended particularly in applications requiring a combination of benefits of the well-known GDM-series, such as ease of assembly, with extremely compact design. The series also includes a version with integrated strain relief that already meets the requirements of the new UL specification 2238. This and further approvals, such as VDE and CSA, permit the GDMF valve connectors to be used in applications worldwide.

Product Features

- Flat design
- Non-slip surfaces on both sides
- Electronic inserts with function display and/or protective circuitry
- Patented combi-contact
- Captive seal
- UL version with strain relief

Product Benefits

- Space-saving and application-tailored design
- Time-saving ease of handling during assembly and disassembly
- Flexible use for optimum safety and monitoring of applications
- Familiar GDM connection technology in new GDMF design
- Global fit supported by international approvals

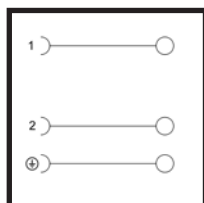


Because of their great versatility and extended application fit, the new flat GDMF valve connectors can be used in an even wider range of markets.

This provides a perfect Hirschmann™ connector solution for any application – in the usual high Hirschmann™ quality and regardless of field of use or temperature range. Due to their multiple configuration possibilities and optional UL version with strain relief, the valve connector A, B and C series meet all requirements for hydraulic, pneumatic and electromagnetic actuator and sensor applications.

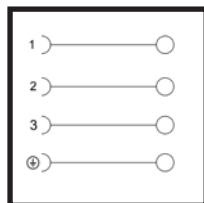


Electronic Inserts



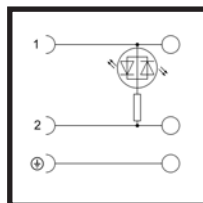
DA 2+PE

Without electronic insert



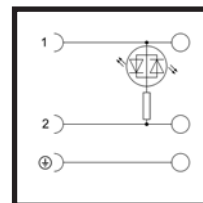
DA 3+PE

Without electronic insert



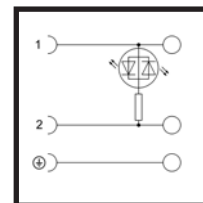
DB

Yellow LED, 24 V



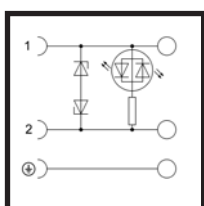
DC

Yellow LED, 120 V



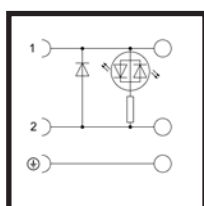
DE

Yellow LED, 250 V



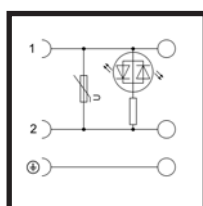
DF

Yellow LED, 24 V,
plus suppression diode



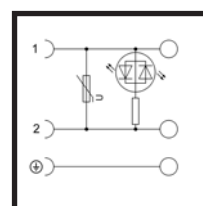
DG

Yellow LED, 24 V,
plus recovery diode



DL

Yellow LED, 250 V,
plus varistor



DR

Yellow LED, 120 V,
plus varistor

Technical Specifications

Design Type	
Standard	EN 175301-803A / ISO 4400
Number of pins	2+PE, 3+PE
Wire gauge	max 1,5 mm ²

Rated Voltages	
Without circuitry AC/DC	250 V
With circuitry AC/DC	24, 120 und 250 V

Rated Current	
Without circuitry	AC / DC 16 A
With circuitry	AC / DC 8 A
Except for DG	AC / DC 1 A
Protection class	IP65/IP67
Temperature range	- 40°C to + 85°C
Seal	Preassembled

Locking Mechanism	
Center screw	Steel, Phillips recessed head
Thread	M3

Flammability Ratings	
Housing	94 HB (UL version 94 V0)
Contact support	94 V0
Approvals	VDE, UL, CSA



Greater Choice of Designs

The New Valve Connector Feature Combinations by Designation

1. Basic Type

GDMF

2. Number of Pins

- 2. 2 + PE
- 3. 3 + PE

3. Strain Relief

- 0 None
- 1 Included (UL version)

4. Connection

- 16 M16

5. Circuitry

- DA None
- DB Yellow LED, 24V
- DC Yellow LED, 120V
- DE Yellow LED, 250V
- DF Yellow LED, 24V plus suppression diode
- DG Yellow LED, 24V, plus recovery diode
- DL Yellow LED, 250V, plus varistor
- DR Yellow LED, 120V, plus varistor

6. Seal Material

- A NBR
- B EPDM

7. Center Screw

- A Steel, recessed head

The added flexibility provided by the new Hirschmann™ GDMF connectors for actuator applications has resulted in a greater differentiation by features in the item code.

The designation overview at left helps to identify the specific features in the product code. See example below.

Naturally, the familiar standard products remain available by their established designations.

Designation Example



Always the Right Solution

Belden is one of the world's leading suppliers of signal transmission solutions including cable, connectivity and active components for mission-critical applications ranging from industrial automation to data centers, broadcast studios, and aerospace. Belden offers an extensive and highly specialized product portfolio of signal transmission solutions for information, control and field levels, which the company produces and markets under its proprietary Belden®, Hirschmann™ and Lumberg Automation™ brands.

We would welcome the opportunity to tell you more about our extensive industry portfolio and Belden worldwide service. Further information and technical data are available online at www.beldensolutions.com. You can also contact our sales team directly by dialing +49 7127 14 1806.

The New GDMF Product Types

Order Number	Type Designation
934618001	GDMF 2016 DAAA
934618002	GDMF 3016 DAAA
934618003	GDMF 2016 DBAA
934618004	GDMF 2016 DCAA
934618005	GDMF 2016 DEAA
934618006	GDMF 2016 DFAA
934618007	GDMF 2016 DGAA
934618008	GDMF 2016 DLAA
934618009	GDMF 2016 DRAA
934618010	GDMF 2116 DAAA
934618011	GDMF 3116 DAAA