



# HIRSCHMANN

A BELDEN BRAND

## Product Bulletin

PB1048HE

### Hirschmann GDM-Series Valve Connectors

High safety by protecting downstream electronic components, plus easy supervision due to visualization of the operating status.



**Thanks to their high profile, Hirschmann Valve Connectors in the GDM-Series can be rapidly assembled and put into operation. With high performance reliability, these connectors enable sustainable cost savings.**

- Easy connection of cables and reliable contacting ensure increased productivity
- Special design to fulfill the mechanical and electrical needs according to UL-Requirements (UL 2238)
- Broad range of protective circuitries in state-of-the-art technology and connection (double press-fit) combined with high shock- and vibration-resistance in surroundings up to IP67

The newly developed valve connectors from Hirschmann GDM-series, offered in type A, are available either with protective circuitry or in a version with additional LEDs.

Both versions, which are also available with integrated strain relief compliant with UL 2238, provide maximum protection for your applications. The connection technology comes from the Hirschmann tried-and-tested GDML-series.

Thanks to their configurability, incorporating an optional choice of new materials, these valve connectors are able to provide secure solutions for a wide range of environmental conditions.

### Applications

Hirschmann GDM-series valve connectors are particularly suitable for use in machine building, automation and equipment manufacturing. They facilitate both reliable power supplies and secure data transmission for components such as magnetic valves, pressure transducers, temperature sensors and flow monitors: integrated protective circuitry ensures that downstream electronic components are unaffected by voltage surges or electromagnetic interference.

In short: they deliver a high level of operational safety.

### Your Benefits

The new Hirschmann valve connectors provide you with simplified cable connection and reliable contacting, ensuring a solid increase in productivity. Thanks to the wide connection area, you can assemble the connectors on site. In addition, their high level of shock- and vibration-resistance coupled with industrial protection up to IP67 provide maximum operational reliability.

**A new product to  
serve your needs.  
Be certain**



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## Functionally Reliable and Easy to Maintain

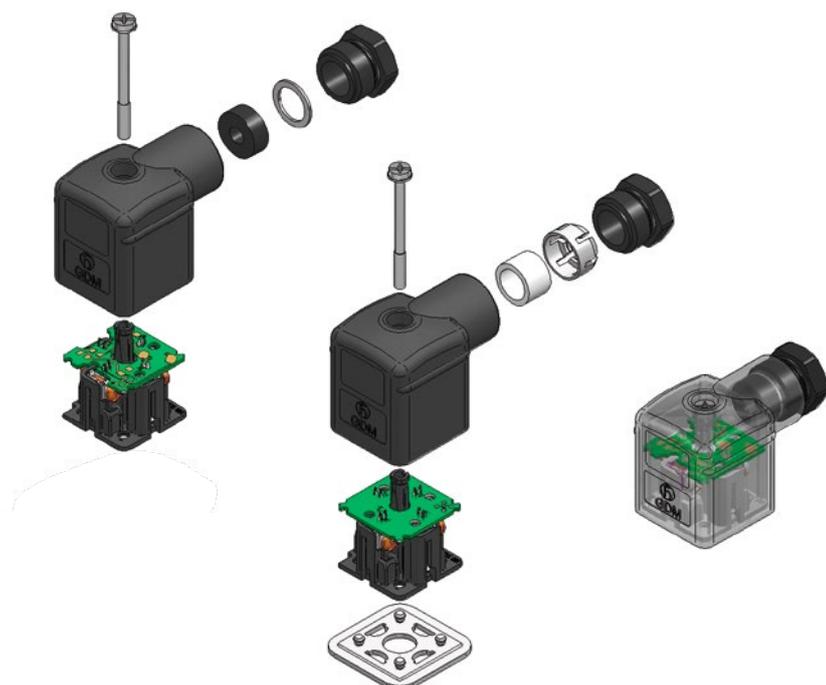
Hirschmann valve connectors are remarkable for their innovative design with rounded edges. Non-slip surfaces on both sides ensure safe handling. Thanks to their high profile, their contacts can be rapidly assembled and put into operation. Special circuitry for every demand, which will also be integrated into other types, provides reliable protection for downstream electronics.

The material of the housing is configurable, enabling the connectors to be customized for different applications. The housing materials provide a variety of options ranging from temperature- and acid-resistant structures to fully biologically recyclable solutions.

Optimal LED radiation  
behavior thanks to  
innovative design

### Benefits at a Glance

- Provides protection degree IP67
- Non slip-surface on both sides for easy handling
- Highly resistant against mechanical vibration and shock
- Complete series approved by VDE
- Optional UL2238 approval (in combination with strain relief)
- 20 different electronic inserts as protective circuitry for downstream electronics (also with LED indication)
- Latest PCB and connection technology
- Wide temperature range from -40 °C to +90 °C
- Design concept allows high flexibility in usage
- Broad range of accessories





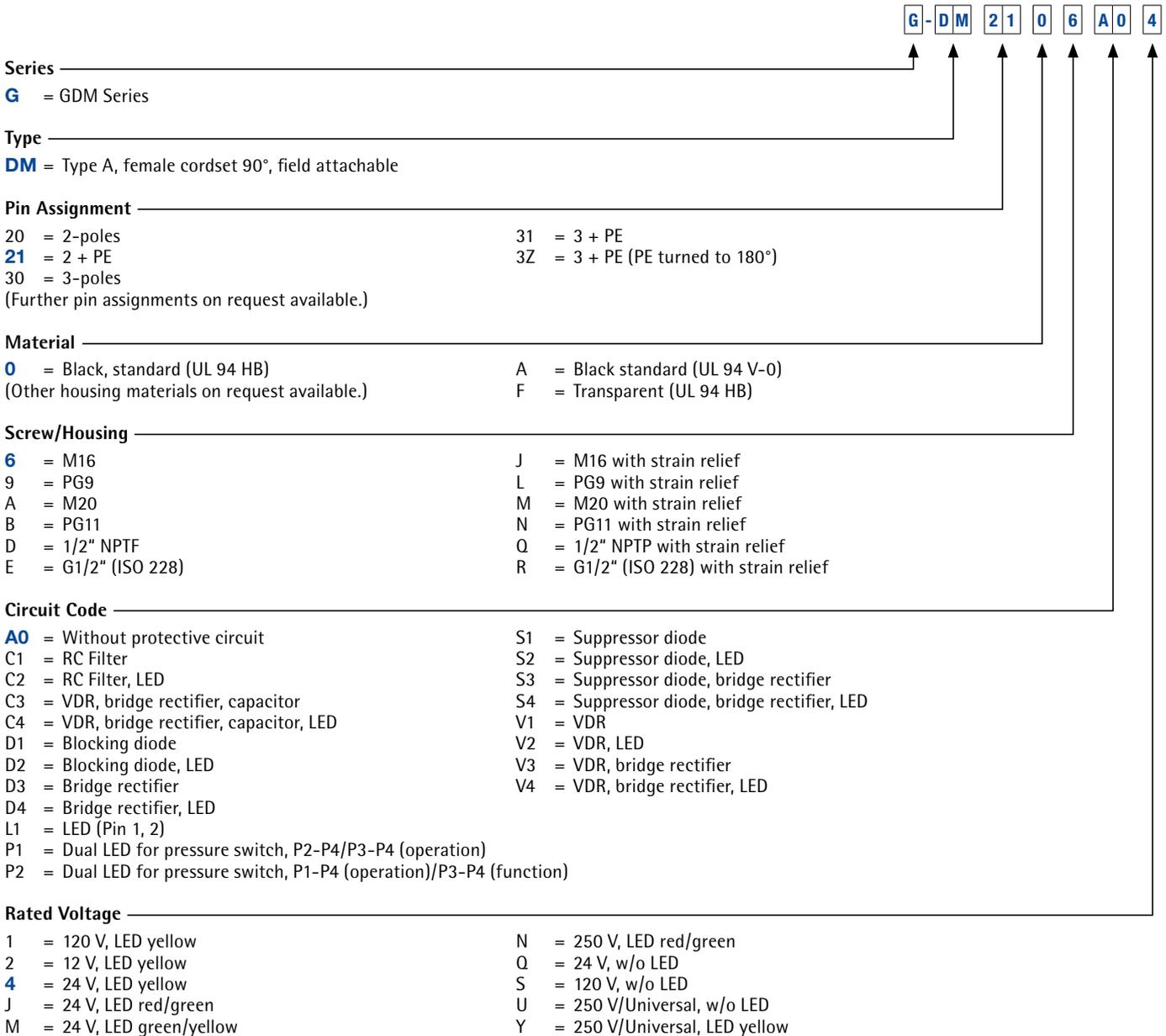
## Technical Information

Product Description	
Type	GDM-Series Valve Connectors
Standards	EN 175301-803, Type A
Number of Contacts	2, 2 + PE, 3, 3 + PE
Cable Gland	M16, PG9, M20, PG11, ½" NPTF, ISO228 (with or without strain-relief)
Conductor Size	max 1.5 mm <sup>2</sup>
Suitable Cables*	M16/PG9: 4.5 mm to 10 mm max. (M20/PG11: 4.5 mm to 14 mm max.)
Technical Data	
Rated Voltage*	AC/DC 12, 24, 48, 120 und 250 V
Rated Current*	AC/DC 10 A (with bridge rectifier AC/DC 1 A)
Protection Class*	IP65/IP67 (IP68 on request)
Operating Temperature*	-40 °C to +90 °C (-55 °C to +125 °C on request)
Locking	
Central Screw	M3 x 35
Flammability Class	
Housing*	94 HB, 94 V-0
Contact*	94 HB
Approvals	
VDE	yes
UL	yes (with black UL 94 V-0 housing and strain-relief)
Circuitry Versions	
C1	RC circuit
C2	RC circuit, function indicator filament/neon lamp
C3	RC circuit, function indicator LED
C4	Varistor/bridge rectifier/capacitor
D1	Recovery diode
D2	Recovery diode, function indicator LED
D3	Bridge rectifier
D4	Bridge rectifier, function indicator LED
L1	Function indicator LED
P1	Function indicator for pressure switch (normal open)
P2	Function indicator for pressure switch (normal closed)
S1	Suppressor diode
S2	Suppressor diode, function indicator LED
S3	Suppressor diode/bridge rectifier
S4	Suppressor diode/bridge rectifier, function indicator LED
V1	Varistor
V2	Varistor, function indicator LED
V3	Varistor/bridge rectifier
V4	Varistor/bridge rectifier, function indicator LED

\* Deviations are possible depending on the product configuration



## Product Code for Valve Connectors of the GDM-Series, Type A, Field Attachable



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