



Rectangular Connectors and Cordsets, GDM Series



Be certain. Belden.



The Professional Valve Connector for Pneumatics and Hydraulics

Hydraulic, pneumatic and electro-magnetic actuators and sensors – this durable rectangular connector is protected against dust and water jet spray and is locked with a vibration-proof central screw, also available as a knurled screw for mounting without tools. An additional seal is required for protection to IP68 and IP69K.

Benefits

- Protection circuits and/or function indicators ensure reliable power supply or data communications
- Protection ratings up to IP69K guarantee maximum reliability together with high shock and vibration resistance – even in the most adverse environments

- High-quality materials with extensive resistance to numerous chemicals and UV light ensure a long service life
- Meets international standards to ensure universal compatibility

Applications

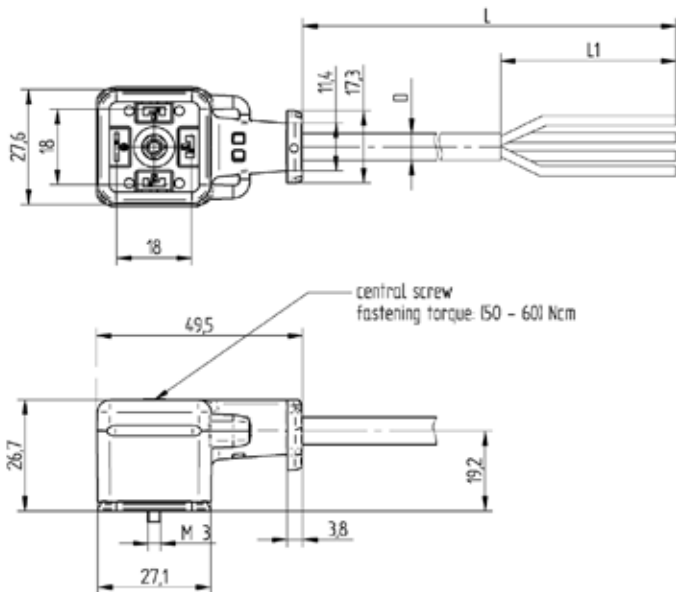
The GDM series is used wherever rectangular connectors must be resilient, such as on oil rigs, conveyor systems, in mechanical and plant engineering.

Thanks to a protection circuit and/or function indicator, as well as an extremely robust design, they can reliably connect solenoid valves, pressure sensors, temperature sensors, and flow monitors to voltage supplies or a data network.

Even in devices and components exposed to vibrations, such as construction machinery or conveyor systems, using press-fit crimping technology allows for an extremely robust solution. The GDM series, with integrated electronic components such as rectifiers, optical status indicators, and RC circuits, connect to devices that do not have these functions built in.

GDM Series Valve Connectors, Type A, Overmolded Female Connectors

Technical Information

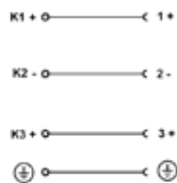
Product Description		
Order Designation	GANXX0U-A0U	GANXXLU-A0U
		
Description	Valve connector GDM series, type A, female connector overmolded, with UL approval, available with different pin options	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE, UL	VDE
Technical Data		
No. of Pins	2, 2 + PE, 2 + 2PE, 3 + PE	
Ambient Temperature	-25 °C to +85 °C (UL), -40 °C/+105 °C (with additional gasket)	
Housing/Grip/Screw Coupling	TPU, black (UL)	TPU, gray translucent
Contact Holder	PA 66	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
Flammability Class	HB	
Mechanical Data		
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	No protection circuit	
Operating Voltage	230 V AC/DC, without PE: 50 V AC/60 V DC	
Rated Current	10 A (cable: 0.75 mm²), 6 A (cable: 0.5 mm²)	
Pollution Degree	3	
Accessories		
Cable	PVC, PUR	
Conductor Size	2 x 0.75 mm², 3 x 0.50 mm², 3 x 0.75 mm², 4 x 0.50 mm², 4 x 0.75 mm²	
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket	
Technical Drawing		
		

Pin Assignment

GAN no PE	GAN 2 + PE	GAN 2 + 2 PE	GAN 3 + PE

Circuit Diagram

P-Code: A0U



Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889087	GAN20LU-A0U-6060200	2	2 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889088	GAN20LU-A0U-6060500	2	5 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
6736	GAN20LU-A0U-6061000	2	10 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889085	GAN20LU-A0U-6120200	2	2 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH
934889086	GAN20LU-A0U-6120500	2	5 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH
10547	GAN20LU-A0U-6121000	2	10 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH
934889073	GAN21LU-A0U-6030200	2 + PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889074	GAN21LU-A0U-6030500	2 + PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
10548	GAN21LU-A0U-6031000	2 + PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889083	GAN22LU-A0U-6030200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889084	GAN22LU-A0U-6030500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
10903	GAN22LU-A0U-6031000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	VDE, CE, RoHS, REACH
934889070	GAN21LU-A0U-6090200	2 + PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH
934889071	GAN21LU-A0U-6090500	2 + PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH
934889072	GAN21LU-A0U-6091000	2 + PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	VDE, CE, RoHS, REACH

Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A, Overmolded Female Connectors (continued)**Order Information**

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889001	GAN22LU-A0U-2050200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, black	   
934889002	GAN22LU-A0U-2050500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, black	   
934889003	GAN22LU-A0U-2051000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, black	   
10904	GAN22LU-A0U-2260200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	   
934889004	GAN22LU-A0U-2260500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	   
934889005	GAN22LU-A0U-2261000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	   
934889081	GAN22LU-A0U-6090200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	   
934889082	GAN22LU-A0U-6090500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	   
934889129	GAN22LU-A0U-6091000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PVC, gray	   
934889006	GAN31LU-A0U-7430200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	   
934889007	GAN31LU-A0U-7430500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	   
934889008	GAN31LU-A0U-7431000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	   
934889009	GAN31LU-A0U-7440200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	   
934889010	GAN31LU-A0U-7440500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	   
934889011	GAN31LU-A0U-7441000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	   
934889078	GAN31LU-A0U-6040200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	   
934889079	GAN31LU-A0U-6040500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	   
7947	GAN31LU-A0U-6041000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	   
934889075	GAN31LU-A0U-6100200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PVC, gray	   
934889076	GAN31LU-A0U-6100500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PVC, gray	   
934889077	GAN31LU-A0U-6101000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PVC, gray	   

Conversion table mm² to AWG on page 20.

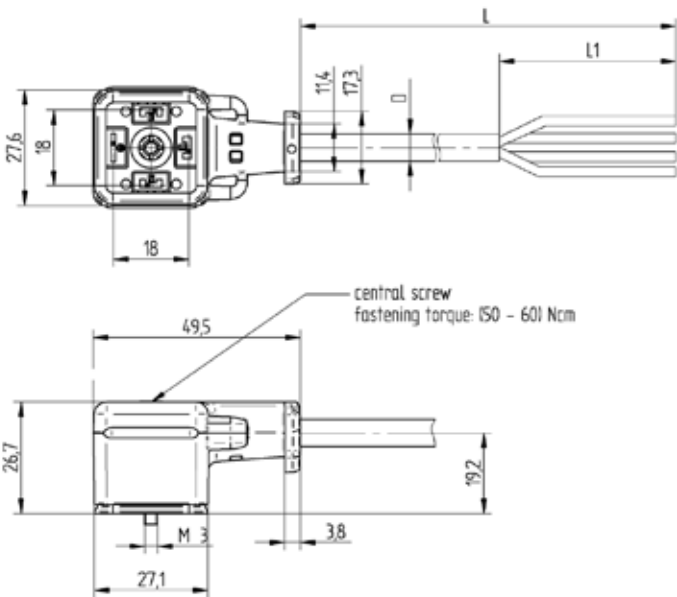
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889587	GAN200U-A0U-6060200	2	2 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	UL VDE    
934889588	GAN200U-A0U-6060500	2	5 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	UL VDE    
10549	GAN200U-A0U-6061000	2	10 M	50 V AC/60 V DC, without LED	2 x 0.75 mm ²	PUR, gray	UL VDE    
934889573	GAN210U-A0U-6030200	2 + PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
934889574	GAN210U-A0U-6030500	2 + PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
10550	GAN210U-A0U-6031000	2 + PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
934889583	GAN220U-A0U-6030200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
934889584	GAN220U-A0U-6030500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
10551	GAN220U-A0U-6031000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.75 mm ²	PUR, gray	UL VDE    
10552	GAN220U-A0U-2260200	2 + 2 PE	2 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	UL VDE    
934889504	GAN220U-A0U-2260500	2 + 2 PE	5 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	UL VDE    
934889505	GAN220U-A0U-2261000	2 + 2 PE	10 M	230 V AC/DC, without LED	3 x 0.50 mm ²	PUR, black	UL VDE    
934889506	GAN310U-A0U-7430200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	UL VDE    
934889507	GAN310U-A0U-7430500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	UL VDE    
9647	GAN310U-A0U-7431000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PVC, black	UL VDE    
934889509	GAN310U-A0U-7440200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	UL VDE    
934889510	GAN310U-A0U-7440500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	UL VDE    
934889511	GAN310U-A0U-7441000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.50 mm ²	PUR, black	UL VDE    
934889578	GAN310U-A0U-6040200	3 + PE	2 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	UL VDE    
934889579	GAN310U-A0U-6040500	3 + PE	5 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	UL VDE    
9641	GAN310U-A0U-6041000	3 + PE	10 M	230 V AC/DC, without LED	4 x 0.75 mm ²	PUR, gray	UL VDE    

Conversion table mm² to AWG on page 20.

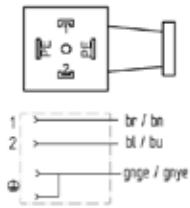
GDM Series Valve Connectors, Type A, Overmolded Female Connectors without Protection Circuit and LED

Technical Information

Product Description	
Order Designation	GAN22LU-L1X
	
Description	Valve connector GDM series, type A, female connector overmolded, with function indicator (yellow LED)
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE
Technical Data	
No. of Pins	2 + 2 PE
Ambient Temperature	-25 °C to +85 °C (with additional gasket: -40 °C/+105 °C)
Housing/Grip/Screw Coupling	TPU, gray translucent
Contact Holder	PA 66
Contact	CuZn
Central Screw	4.8, Fe/Zn B
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)
Electrical Data	
Circuit	Yellow LED, no protection circuit
Operating Voltage	24 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A (cable: 0.75 mm ²), 6 A (cable: 0.5 mm ²)
Pollution Degree	3
Accessories	
Cable	PVC, PUR
Conductor Size	3 x 0.50 mm ² , 3 x 0.75 mm ²
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket
Technical Drawing	
	

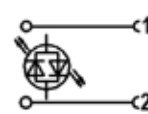
Pin Assignment

GAN 2 + 2 PE



Circuit Diagram

GAN22LU-L1X



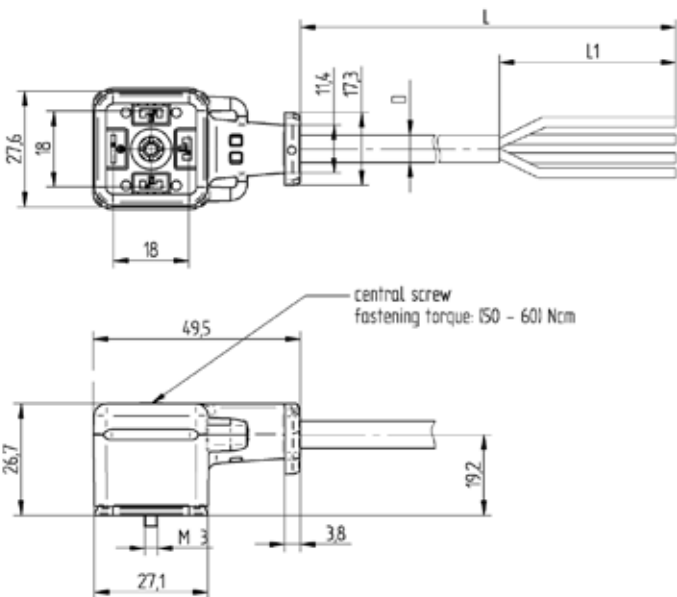
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889024	GAN22LU-L11-2260200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889025	GAN22LU-L11-2260500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889026	GAN22LU-L11-2261000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889096	GAN22LU-L11-6030200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889097	GAN22LU-L11-6030500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
10553	GAN22LU-L11-6031000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889094	GAN22LU-L11-6090200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889095	GAN22LU-L11-6090500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
10554	GAN22LU-L11-6091000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889018	GAN22LU-L14-2120200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889019	GAN22LU-L14-2120500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889020	GAN22LU-L14-2121000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889021	GAN22LU-L14-2260200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889022	GAN22LU-L14-2260500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889023	GAN22LU-L14-2261000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889091	GAN22LU-L14-6030200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889092	GAN22LU-L14-6030275	2 + 2 PE	2.75 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889093	GAN22LU-L14-6030500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	
9389	GAN22LU-L14-6031000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889089	GAN22LU-L14-6090200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889090	GAN22LU-L14-6090500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	
10555	GAN22LU-L14-6091000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889027	GAN22LU-L1Y-2120200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889028	GAN22LU-L1Y-2120500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889029	GAN22LU-L1Y-2121000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889030	GAN22LU-L1Y-2260200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889031	GAN22LU-L1Y-2260500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889032	GAN22LU-L1Y-2261000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889100	GAN22LU-L1Y-6030200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889101	GAN22LU-L1Y-6030500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
10556	GAN22LU-L1Y-6031000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889098	GAN22LU-L1Y-6090200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889099	GAN22LU-L1Y-6090500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	
10557	GAN22LU-L1Y-6091000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	

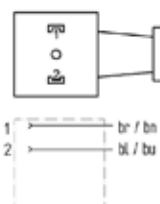
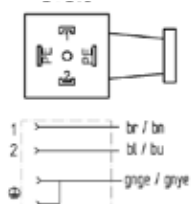
Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A, Overmolded Female Connectors, Protection Circuit: Recovery Diode

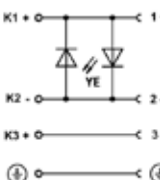
Technical Information

Product Description	
Order Designation	GAN222LU-D24
	
Description	Valve connector GDM series, type A, female connector overmolded, with function indicator (yellow LED) and protection circuit (recovery diode)
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE
Technical Data	
No. of Pins	2, 2 + 2 PE
Ambient Temperature	-25 °C to +85 °C (with additional gasket: -40 °C/+105 °C)
Housing/Grip/Screw Coupling	TPU, gray translucent
Contact Holder	PA 66
Contact	CuZn
Central Screw	4.8, Fe/Zn B
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)
Electrical Data	
Circuit	With/without yellow LED, recovery diode
Operating Voltage	24 V DC (recovery)
Rated Current	10 A (cable: 0.75 mm ²), 6 A (cable: 0.5 mm ²)
Pollution Degree	3
Accessories	
Cable	PVC, PUR
Conductor Size	2 x 0.75 mm ² , 3 x 0.50 mm ² , 3 x 0.75 mm ² , 4 x 0.50 mm ² , 4 x 0.75 mm ²
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket
Technical Drawing	
	

Pin Assignment

GAN no PE	GAN 2 + 2 PE
	

Circuit Diagram

P-Code: D2


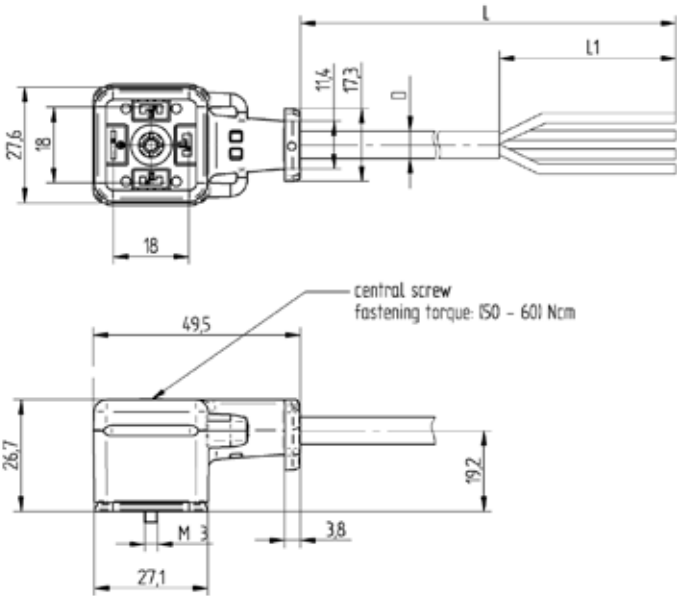
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889012	GAN22LU-D24-2120200	2 + 2 PE	2 M	24 V DC	3 x 0.50 mm ²	PVC, black	  
934889013	GAN22LU-D24-2120500	2 + 2 PE	5 M	24 V DC	3 x 0.50 mm ²	PVC, black	  
934889014	GAN22LU-D24-2121000	2 + 2 PE	10 M	24 V DC	3 x 0.50 mm ²	PVC, black	  
934889015	GAN22LU-D24-2260200	2 + 2 PE	2 M	24 V DC	3 x 0.50 mm ²	PUR, black	  
934889016	GAN22LU-D24-2260500	2 + 2 PE	5 M	24 V DC	3 x 0.50 mm ²	PUR, black	  
934889017	GAN22LU-D24-2261000	2 + 2 PE	10 M	24 V DC	3 x 0.50 mm ²	PUR, black	  

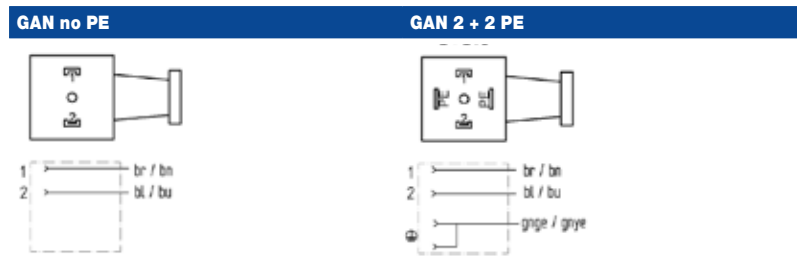
Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A, Overmolded Female Connectors, Protection Circuit: Suppressor Diode

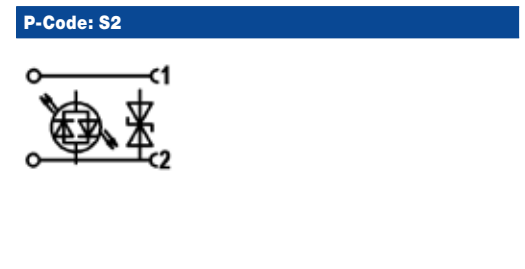
Technical Information

Product Description	
Order Designation	GAN2XLU-S2X
	
Description	Valve connector GDM series, type A, female connector overmolded, with function indicator (yellow LED) and protection circuit (suppressor diode)
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE
Technical Data	
No. of Pins	2, 2 + 2 PE
Ambient Temperature	-25 °C to +85 °C (with additional gasket: -40 °C/+105 °C)
Housing/Grip/Screw Coupling	TPU, gray translucent
Contact Holder	PA 66
Contact	CuZn
Central Screw	4.8, Fe/Zn B
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)
Electrical Data	
Circuit	With/without yellow LED, suppressor diode
Operating Voltage	12 V AC/DC, 24 V AC/DC
Rated Current	10 A (cable: 0.75 mm ²), 6 A (cable: 0.5 mm ²)
Pollution Degree	3
Accessories	
Cable	PVC, PUR
Conductor Size	2 x 0.75 mm ² , 3 x 0.50 mm ² , 3 x 0.75 mm ²
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket
Technical Drawing	
	 central screw fastening torque: (50 - 60) Nm

Pin Assignment



Circuit Diagram



Order Information

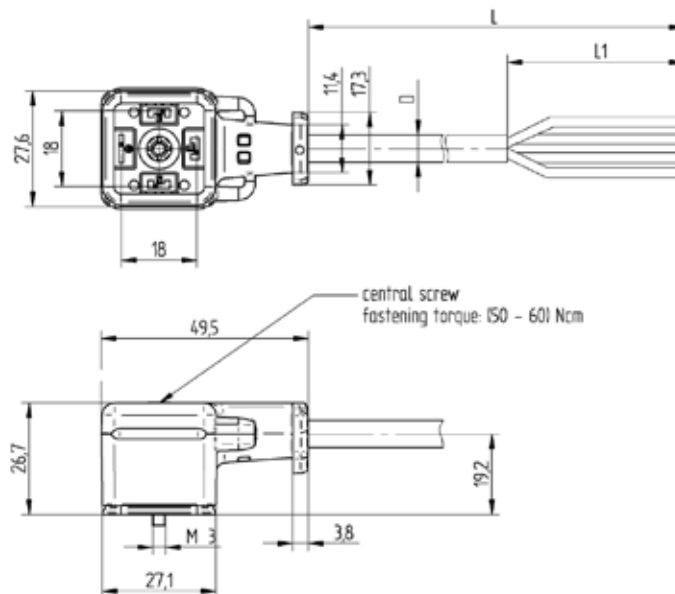
Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889119	GAN20LU-S22-6180200	2	2 M	12 V AC/DC	2 x 0.75 mm ²	PVC, gray	VDE  
934889127	GAN20LU-S22-6180500	2	5 M	12 V AC/DC	2 x 0.75 mm ²	PVC, gray	VDE  
934889121	GAN20LU-S22-6181000	2	10 M	12 V AC/DC	2 x 0.75 mm ²	PVC, gray	VDE  
934889033	GAN22LU-S24-2120200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	VDE  
934889034	GAN22LU-S24-2120500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	VDE  
934889035	GAN22LU-S24-2121000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	VDE  
934889036	GAN22LU-S24-2260200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	VDE  
934889038	GAN22LU-S24-2260500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	VDE  
934889039	GAN22LU-S24-2261000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	VDE  
934889105	GAN22LU-S24-6030200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	VDE  
934889106	GAN22LU-S24-6030500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	VDE  
7935	GAN22LU-S24-6031000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.75 mm ²	PUR, gray	VDE  
934889102	GAN22LU-S24-6090200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	VDE  
934889103	GAN22LU-S24-6090500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	VDE  
8322	GAN22LU-S24-6091000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.75 mm ²	PVC, gray	VDE  

Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A, Overmolded Female Connectors, for Pressure Switch Applications

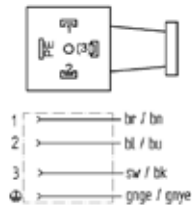
Technical Information

Product Description		
Order Designation	GAN31LU-P1M	GAN31LU-P2M
		
Description	Valve connector GDM series, type A, female connector overmolded, for pressure switches, status indicator for make/break contact	Valve connector GDM series, type A, female connector overmolded, for pressure switches, status indicator for operation/make contact
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE	
Technical Data		
No. of Pins	3 + PE	
Ambient Temperature	-25 °C to +85 °C (with additional gasket: -40 °C/+105 °C)	
Housing/Grip/Screw Coupling	TPU, gray translucent	
Contact Holder	PA 66	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
Flammability Class	HB	
Mechanical Data		
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	Green/yellow LED, pressure switch: P1-P4 (operation)/P3-P4 (function)	
Operating Voltage	24 V AC/DC	
Rated Current	10 A (cable: 0.75 mm²)	6 A (cable: 0.5 mm²)
Pollution Degree	3	
Accessories		
Cable	PVC, PUR	
Conductor Size	3 x 0.50 mm², 3 x 0.75 mm²	
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket	
Technical Drawing		



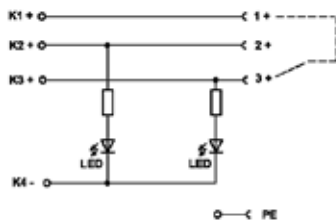
Pin Assignment

GAN 3 + PE

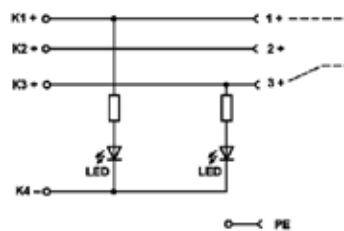


Circuit Diagram

P-Code: P1



P-Code: P2



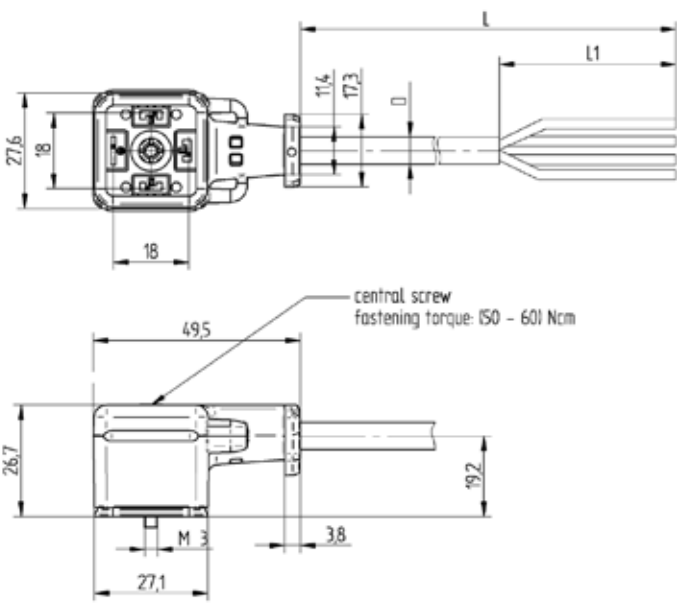
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889109	GAN31LU-P1M-6110200	3 + PE	2M	24 V AC/DC	5 x 0.75 mm ²	PVC, gray	VDE   
934889110	GAN31LU-P1M-6110500	3 + PE	5M	24 V AC/DC	5 x 0.75 mm ²	PVC, gray	VDE   
10546	GAN31LU-P1M-6111000	3 + PE	10M	24 V AC/DC	5 x 0.75 mm ²	PVC, gray	VDE   
934889061	GAN31LU-P2M-2280200	3 + PE	2 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889062	GAN31LU-P2M-2280500	3 + PE	5 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889063	GAN31LU-P2M-2281000	3 + PE	10 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889064	GAN3ZLU-P2M-2280200	3 + PE	2 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889065	GAN3ZLU-P2M-2280500	3 + PE	5 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889066	GAN3ZLU-P2M-2281000	3 + PE	10 M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
934889067	GAN3ZLU-P2M-2281500	3 + PE	15M	24 V AC/DC	5 x 0.50 mm ²	PUR, black	VDE   
10558	GAN3ZLU-P2M-2590200	3 + PE	2 M	24 V AC/DC	5 x 0.50 mm ²	PUR, orange	VDE   
934889068	GAN3ZLU-P2M-2590500	3 + PE	5 M	24 V AC/DC	5 x 0.50 mm ²	PUR, orange	VDE   
934889069	GAN3ZLU-P2M-2591000	3 + PE	10 M	24 V AC/DC	5 x 0.50 mm ²	PUR, orange	VDE   

Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A,
Overmolded Female Connectors, Protection Circuit: Varistor

Technical Information

Product Description	
Order Designation	GAN22LU-V2X
	
Description	Valve connector GDM series, type A, female connector overmolded, with function indicator (yellow LED) and protection circuit (varistor)
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE
Technical Data	
No. of Pins	2 + 2 PE, 3 + PE
Ambient Temperature	-25 °C to +85 °C (with additional gasket: -40 °C/+105 °C)
Housing/Grip/Screw Coupling	TPU, gray translucent
Contact Holder	PA 66
Contact	CuZn
Central Screw	4.8, Fe/Zn B
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP67, IP68/IP69K with PUR cable (only when mated with Hirschmann/Lumberg counterparts)
Electrical Data	
Circuit	Yellow LED, varistor
Operating Voltage	24 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A (cable: 0.75 mm²), 6 A (cable: 0.50 mm²)
Pollution Degree	3
Accessories	
Cable	PVC, PUR
Conductor Size	3 x 0.50 mm², 3 x 0.75 mm²
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	735633002, GAN gasket 735656002, fixing clip for additional gasket
Technical Drawing	
	

Pin Assignment

GAN 2 + 2 PE	GAN 3 + PE

Circuit Diagram

GAN22LU-V2X

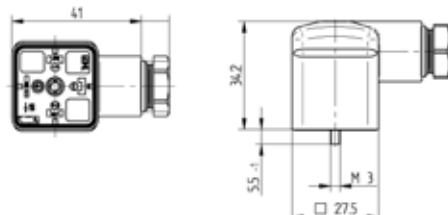
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
934889040	GAN22LU-V21-2260200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889041	GAN22LU-V21-2260500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889042	GAN22LU-V21-2261000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889117	GAN22LU-V21-6030200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889118	GAN22LU-V21-6030500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
10559	GAN22LU-V21-6031000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889115	GAN22LU-V21-6090200	2 + 2 PE	2 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889116	GAN22LU-V21-6090500	2 + 2 PE	5 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
10560	GAN22LU-V21-6091000	2 + 2 PE	10 M	120 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889043	GAN22LU-V24-2120200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889044	GAN22LU-V24-2120300	2 + 2 PE	3 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889045	GAN22LU-V24-2120500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889046	GAN22LU-V24-2121000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889047	GAN22LU-V24-2260060	2 + 2 PE	0.6 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889048	GAN22LU-V24-2260200	2 + 2 PE	2 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889049	GAN22LU-V24-2260300	2 + 2 PE	3 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889050	GAN22LU-V24-2260500	2 + 2 PE	5 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889051	GAN22LU-V24-2261000	2 + 2 PE	10 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889052	GAN22LU-V24-2261500	2 + 2 PE	15 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889053	GAN22LU-V24-2262000	2 + 2 PE	20 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889054	GAN22LU-V24-2262500	2 + 2 PE	25 M	24 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889055	GAN22LU-V2Y-2120200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889056	GAN22LU-V2Y-2120500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889057	GAN22LU-V2Y-2121000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.50 mm ²	PVC, black	
934889058	GAN22LU-V2Y-2260200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889059	GAN22LU-V2Y-2260500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
934889060	GAN22LU-V2Y-2261000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.50 mm ²	PUR, black	
6446	GAN22LU-V2Y-6030200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889114	GAN22LU-V2Y-6030500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
10563	GAN22LU-V2Y-6031000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.75 mm ²	PUR, gray	
934889111	GAN22LU-V2Y-6090200	2 + 2 PE	2 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	
934889112	GAN22LU-V2Y-6090500	2 + 2 PE	5 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	
10564	GAN22LU-V2Y-6091000	2 + 2 PE	10 M	230 V AC/DC	3 x 0.75 mm ²	PVC, gray	
6447	GAN31LU-V2Y-6040200	3 + PE	2 M	230 V AC/DC	4 x 0.75 mm ²	PUR, gray	

Conversion table mm² to AWG on page 20.

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, no Circuit, with and without Bridge-rectifier

Technical Information

Product Description		
Order Designation	GDMXXX-AOU	GDMXXX-D3U
		
Description	Valve connector GDM series, type A, female connector, field attachable	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE, SEV	
Connectible Cables	Ø 4.5 to 10 mm	
Conductor Size	0.25 x 1.5 mm²	
Technical Data		
No. of Pins	2 + PE, 3 + PE	2 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
O-Ring Material	SBR/NBR	
Flammability Class	HB	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	GDM31...: screw-type terminal, GDM3C: crimping
Electrical Data		
Circuit	None	No protection circuit with bridge rectifier
Contact Resistance	≤ 4 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	16 A	1 A
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18 GDM3C.../ GDM3J... only: Crimp contact 732384002 RBCB 630
Technical Drawing		
		

Additional options available upon request.

Circuit Diagram

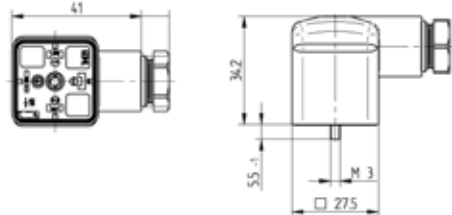
P-Code: A0U	P-Code: D3

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888100	GDM2106-A0U	2 + PE	—	M16 x 1.5	230 V AC/DC	16 A	
934888104	GDM2109-A0U	2 + PE	—	PG9	230 V AC/DC	16 A	
934888102	GDM210A-A0U	2 + PE	—	M20 x 1.5	230 V AC/DC	16 A	
934888106	GDM210B-A0U	3 + PE	—	PG11	230 V AC/DC	16 A	
934888108	GDM210D-A0U	2 + PE	—	½ NPTF	230 V AC/DC	16 A	
934888110	GDM210E-A0U	2 + PE	—	G½" ISO 228	230 V AC/DC	16 A	
934888101	GDM3106-A0U	3 + PE	—	M16 x 1.5	230 V AC/DC	16 A	
934888105	GDM3109-A0U	3 + PE	—	PG9	230 V AC/DC	16 A	
934888103	GDM310A-A0U	3 + PE	—	M20 x 1.5	230 V AC/DC	16 A	
934888107	GDM310B-A0U	3 + PE	—	PG11	230 V AC/DC	16 A	
934888109	GDM310D-A0U	3 + PE	—	½ NPTF	230 V AC/DC	16 A	
934888111	GDM310E-A0U	3 + PE	—	G½" ISO 228	230 V AC/DC	16 A	
934888013	GDM2106-D3U	2 + PE	Bridge rectifier	M16 x 1.5	230 V AC/DC	1 A	
934888049	GDM210A-D3U	2 + PE	Bridge rectifier	M20 x 1.5	230 V AC/DC	1 A	

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, UL, with/without Protection Circuit

Technical Information

Product Description		
Order Designation	GDMX1AX-A0U	GDM21AX-XXX
		
Description	Valve connector GDM series, type A, female connector, field attachable	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	UL, VDE, SEV, CSA	
Connectible Cables	M16 x 1.5/PG9: Ø 6 to 8 mm; M20 x 1.5/PG11: Ø 8 to 10 mm; 1/2" NPTF/G1/2" ISO: Ø 8 to 10 mm	
Conductor Size	0.25 x 1.5 mm²	
Technical Data		
No. of Pins	2 + PE, 3 + PE	2 + PE
Ambient Temperature	-40 °C to +125 °C, notice derating	-25 °C to +90 °C, notice derating
Housing/Grip/Screw Coupling	PA 66	
Contact Holder	PA	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
O-Ring Material	SBR/NBR	
Flammability Class	UL 94 5VA	
Mechanical Data		
Degree of Protection	IP67 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	None	Varistor, recovery diode with/without bridge rectifier
Contact Resistance	≤ 4 mΩ	
Operating Voltage	230 V AC/DC, UL: 300 V AC/DC	24 V AC/DC, 120 V AC/DC, 230 V DC (recovery), 230 V AC/DC
Rated Current	10 A	10 A, 1 A (with bridge rectifier)
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18	
Technical Drawing		
		

Additional options available upon request.

Circuit Diagram

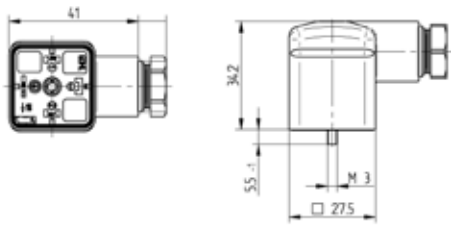
P-Code: V1	P-Code: V3	P-Code: D1	P-Code: D3	P-Code: A0U

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
14640	GDM31AM-A0U-10F	3 + PE	–	M20 + strain relief	300 V AC/DC	10 A	
934888112	GDM21AL-A0U-10F	2 + PE	–	PG9 + strain relief	300 V AC/DC	10 A	
934888123	GDM21AN-A0U-10F	2 + PE	–	PG11 + strain relief	300 V AC/DC	10 A	
934888124	GDM21AJ-A0U-10F	2 + PE	–	M16 + strain relief	300 V AC/DC	10 A	
934888125	GDM31AN-A0U-10F	3 + PE	–	PG11 + strain relief	300 V AC/DC	10 A	
934888126	GDM31AJ-A0U-10F	3 + PE	–	M16 + strain relief	300 V AC/DC	10 A	
934888127	GDM31AL-A0U-10F	3 + PE	–	PG9 + strain relief	300 V AC/DC	10 A	
934888128	GDM31AQ-A0U-10F	3 + PE	–	1/2" NPTF + strain relief	300 V AC/DC	10 A	
934888133	GDM21AQ-A0U-10F	2 + PE	–	1/2" NPTF + strain relief	300 V AC/DC	10 A	
934888510	GDM21AJ-D1U	2 + PE	Recovery diode	M16 + strain relief	230 V DC	10 A	
934888513	GDM21AJ-D3U	2 + PE	Bridge rectifier	M16 + strain relief	230 V AC/DC	1 A	
934888531	GDM21AJ-V1Q	2 + PE	Varistor	M16 + strain relief	24 V AC/DC	10 A	
934888532	GDM21AJ-V1S	2 + PE	Varistor	M16 + strain relief	120 V AC/DC	10 A	
934888533	GDM21AJ-V1U-10D	2 + PE	Varistor	M16 + strain relief	230 V AC/DC	10 A	
934888537	GDM21AJ-V3S	2 + PE	Varistor, bridge rectifier	M16 + strain relief	120 V AC/DC	1 A	
934888538	GDM21AJ-V3U-10D	2 + PE	Varistor, bridge rectifier	M16 + strain relief	230 V AC/DC	1 A	

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Recovery Diode

Technical Information

Product Description	
Order Designation	GDM210X-D1U
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Recovery diode
Contact Resistance	≤ 4 mΩ
Operating Voltage	230 V DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

P-Code: D1

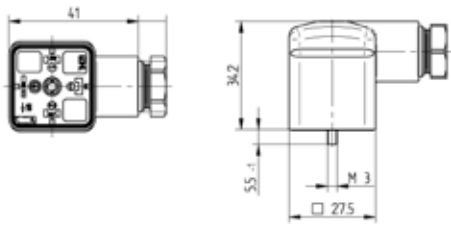


Order Information

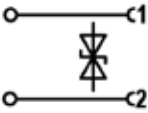
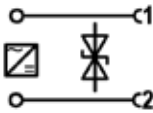
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888010	GDM2106-D1U	2 + PE	Recovery diode	M16 x 1.5	230 V DC	10 A	  
934888046	GDM210A-D1U	2 + PE	Recovery diode	M20 x 1.5	230 V DC	10 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Suppressor Diode

Technical Information

Product Description	
Order Designation	GDM210X-SXQ
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Suppressor diode with/without bridge rectifier
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V AC/DC
Rated Current	10 A, 1 A (with bridge rectifier)
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

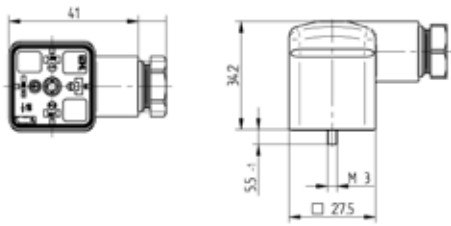
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Order Information

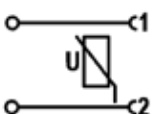
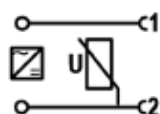
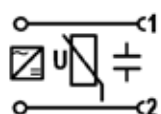
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888025	GDM2106-S1Q	2 + PE	Suppressor diode	M16 x 1.5	24 V AC/DC	10 A	  
934888061	GDM210A-S1Q	2 + PE	Suppressor diode	M20 x 1.5	24 V AC/DC	10 A	  
934888028	GDM2106-S3Q	2 + PE	Suppressor diode, bridge rectifier	M16 x 1.5	24 V AC/DC	1 A	  
934888064	GDM210A-S3Q	2 + PE	Suppressor diode, bridge rectifier	M20 x 1.5	24 V AC/DC	1 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Varistor

Technical Information

Product Description	
Order Designation	GDM210X-XXX
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Varistor with/without bridge rectifier, with/without capacitor
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A, 1 A (with bridge rectifier)
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

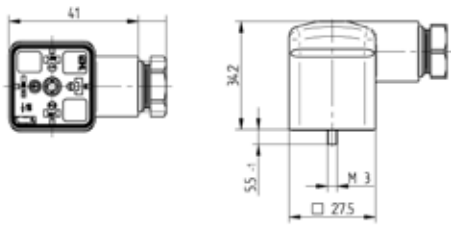
P-Code: V1	P-Code: V3	P-Code: C3
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888031	GDM2106-V1Q	2 + PE	Varistor	M16 x 1.5	24 V AC/DC	10 A	VDE  
934888032	GDM2106-V1S	2 + PE	Varistor	M16 x 1.5	120 V AC/DC	10 A	VDE  
934888033	GDM2106-V1U	2 + PE	Varistor	M16 x 1.5	230 V AC/DC	10 A	VDE  
934888067	GDM210A-V1Q	2 + PE	Varistor	M20 x 1.5	24 V AC/DC	10 A	VDE  
934888068	GDM210A-V1S	2 + PE	Varistor	M20 x 1.5	120 V AC/DC	10 A	VDE  
934888069	GDM210A-V1U	2 + PE	Varistor	M20 x 1.5	230 V AC/DC	10 A	VDE  
934888037	GDM2106-V3S	2 + PE	Varistor, bridge rectifier	M16 x 1.5	120 V AC/DC	1 A	VDE  
934888038	GDM2106-V3U	2 + PE	Varistor, bridge rectifier	M16 x 1.5	230 V AC/DC	1 A	VDE  
934888073	GDM210A-V3S	2 + PE	Varistor, bridge rectifier	M20 x 1.5	120 V AC/DC	1 A	VDE  
934888074	GDM210A-V3U	2 + PE	Varistor, bridge rectifier	M20 x 1.5	230 V AC/DC	1 A	VDE  
934888007	GDM2106-C3S	2 + PE	Varistor, bridge rectifier, capacitor	M16 x 1.5	120 V AC/DC	1 A	VDE  
934888008	GDM2106-C3U	2 + PE	Varistor, bridge rectifier, capacitor	M16 x 1.5	230 V AC/DC	1 A	VDE  
934888043	GDM210A-C3S	2 + PE	Varistor, bridge rectifier, capacitor	M20 x 1.5	120 V AC/DC	1 A	VDE  
934888044	GDM210A-C3U	2 + PE	Varistor, bridge rectifier, capacitor	M20 x 1.5	230 V AC/DC	1 A	VDE  

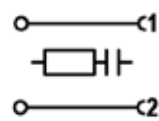
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: RC Filter

Technical Information

Product Description	
Order Designation	GDM210X-C1U
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	RC filter
Contact Resistance	≤ 4 mΩ
Operating Voltage	230 V AC/DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

P-Code: C1

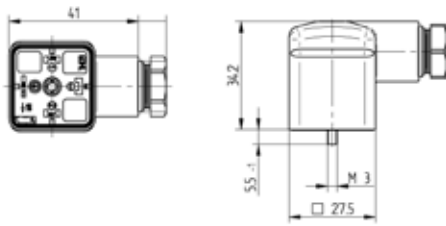


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888005	GDM2106-C1U	2 + PE	RC filter	M16 x 1.5	230 V AC/DC	10 A	  
934888041	GDM210A-C1U	2 + PE	RC filter	M20 x 1.5	230 V AC/DC	10 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors without Protection Circuit, with/without Bridge-rectifier and LED

Technical Information

Product Description	
Order Designation	GDM21FX-XXX
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	No protection circuit with/without bridge rectifier
Contact Resistance	≤ 4 mΩ
Operating Voltage	12 V AC/DC, 24 V AC/DC, 48 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A, 1 A (with bridge rectifier)
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

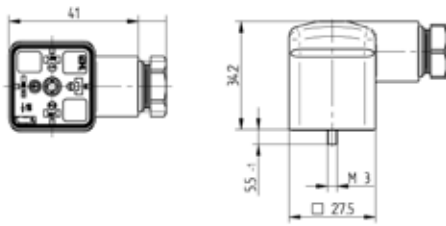
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Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888019	GDM21F6-L11	2 + PE	yellow LED	M16 x 1.5	120 V AC/DC	10 A	
934888016	GDM21F6-L12	2 + PE	yellow LED	M16 x 1.5	12 V AC/DC	10 A	
934888017	GDM21F6-L14	2 + PE	yellow LED	M16 x 1.5	24 V AC/DC	10 A	
934888018	GDM21F6-L18	2 + PE	yellow LED	M16 x 1.5	48 V AC/DV	10 A	
4382	GDM21F6-L1Y	2 + PE	yellow LED	M16 x 1.5	230 V AC/DC	10 A	
934888055	GDM21FA-L11	2 + PE	yellow LED	M20 x 1.5	120 V AC/DC	10 A	
934888052	GDM21FA-L12	2 + PE	yellow LED	M20 x 1.5	12 V AC/DC	10 A	
934888053	GDM21FA-L14	2 + PE	yellow LED	M20 x 1.5	24 V AC/DC	10 A	
934888054	GDM21FA-L18	2 + PE	yellow LED	M20 x 1.5	48 V AC/DC	10 A	
934888056	GDM21FA-L1Y	2 + PE	yellow LED	M20 x 1.5	230 V AC/DC	10 A	
934888014	GDM21F6-D44	2 + PE	yellow LED, bridge rectifier	M16 x 1.5	24 V AC/DC	1 A	
934888015	GDM21F6-D48	2 + PE	yellow LED, bridge rectifier	M16 x 1.5	48 V AC/DV	1 A	
934888050	GDM21FA-D44	2 + PE	yellow LED, bridge rectifier	M20 x 1.5	24 V AC/DC	1 A	
934888051	GDM21FA-D48	2 + PE	yellow LED, bridge rectifier	M20 x 1.5	48 V AC/DC	1 A	

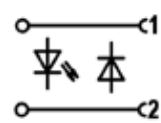
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Recovery Diode and LED

Technical Information

Product Description	
Order Designation	GDM21FX-D2X
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Recovery Diode
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V DC, 48 V DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

P-Code: D2

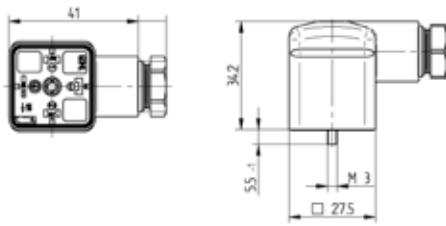


Order Information

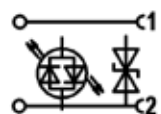
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
4398	GDM21F6-D24	2 + PE	yellow LED, recovery diode	M16 x 1.5	24 V DC	10 A	  
934888012	GDM21F6-D28	2 + PE	yellow LED, recovery diode	M16 x 1.5	48 V DC	10 A	  
934888047	GDM21FA-D24	2 + PE	yellow LED, recovery diode	M20 x 1.5	24 V DC	10 A	  
934888048	GDM21FA-D28	2 + PE	yellow LED, recovery diode	M20 x 1.5	48 V DC	10 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Suppressor Diode and LED

Technical Information

Product Description	
Order Designation	GDM21FX-SXX
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Suppressor diode with/without bridge rectifier
Contact Resistance	≤ 4 mΩ
Operating Voltage	12 V AC/DC, 24 V AC/DC
Rated Current	10 A, 1 A (with bridge rectifier)
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

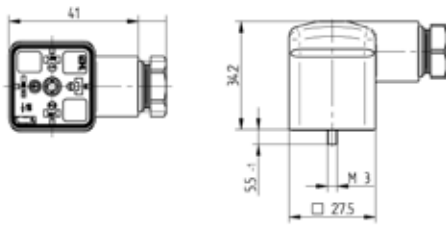
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Order Information

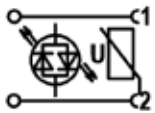
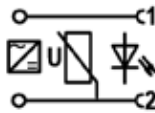
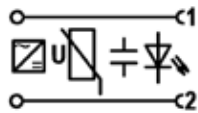
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888026	GDM21F6-S22	2 + PE	yellow LED, suppressor diode	M16 x 1.5	12 V AC/DC	10 A	  
934888027	GDM21F6-S24	2 + PE	yellow LED, suppressor diode	M16 x 1.5	24 V AC/DC	10 A	  
934888062	GDM21FA-S22	2 + PE	yellow LED, suppressor diode	M20 x 1.5	12 V AC/DC	10 A	  
934888063	GDM21FA-S24	2 + PE	yellow LED, suppressor diode	M20 x 1.5	24 V AC/DC	10 A	  
934888029	GDM21F6-S44	2 + PE	yellow LED, suppressor diode, bridge rectifier	M16 x 1.5	24 V AC/DC	1 A	  
934888065	GDM21FA-S44	2 + PE	yellow LED, suppressor diode, bridge rectifier	M20 x 1.5	24 V AC/DC	1 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: Varistor and LED

Technical Information

Product Description	
Order Designation	GDM21FX-XXX
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Varistor with/without bridge rectifier, with/without capacitor
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V AC/DC, 48 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A, 1 A (with bridge rectifier)
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

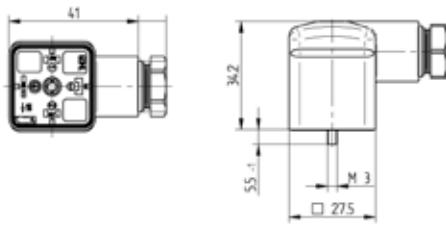
P-Code: V2	P-Code: V4	P-Code: C4
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888035	GDM21F6-V21	2 + PE	yellow LED, varistor	M16 x 1.5	120 V AC/DC	10 A	  
934888034	GDM21F6-V24	2 + PE	yellow LED, varistor	M16 x 1.5	24 V AC/DC	10 A	  
934888036	GDM21F6-V2Y	2 + PE	yellow LED, varistor	M16 x 1.5	230 V AC/DC	10 A	  
934888071	GDM21FA-V21	2 + PE	yellow LED, varistor	M20 x 1.5	120 V AC/DC	10 A	  
934888070	GDM21FA-V24	2 + PE	yellow LED, varistor	M20 x 1.5	24 V AC/DC	10 A	  
934888072	GDM21FA-V2Y	2 + PE	yellow LED, varistor	M20 x 1.5	230 V AC/DC	10 A	  
934888039	GDM21F6-V44	2 + PE	yellow LED, varistor, bridge rectifier	M16 x 1.5	24 V AC/DC	1 A	  
934888040	GDM21F6-V48	2 + PE	yellow LED, varistor, bridge rectifier	M16 x 1.5	48 V AC/DV	1 A	  
934888075	GDM21FA-V44	2 + PE	yellow LED, varistor, bridge rectifier	M20 x 1.5	24 V AC/DC	1 A	  
934888076	GDM21FA-V48	2 + PE	yellow LED, varistor, bridge rectifier	M20 x 1.5	48 V AC/DC	1 A	  
934888009	GDM21F6-C4Y	2 + PE	yellow LED, varistor, bridge rectifier, capacitor	M16 x 1.5	230 V AC/DC	1 A	  
934888045	GDM21FA-C4Y	2 + PE	yellow LED, varistor, bridge rectifier, capacitor	M20 x 1.5	230 V AC/DC	1 A	  

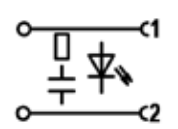
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Protection Circuit: RC Filter and LED

Technical Information

Product Description	
Order Designation	GDM21FX-C2Y
	
Description	Valve connector GDM series, type A, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-25 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	RC filter
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V AC/DC, 48 V AC/DC, 230 V AC/DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18
Technical Drawing	
	

Circuit Diagram

P-Code: C2

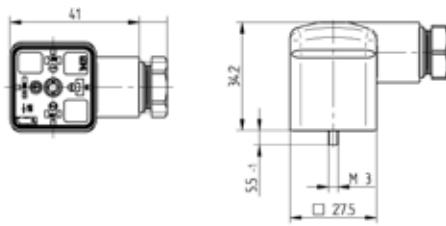


Order Information

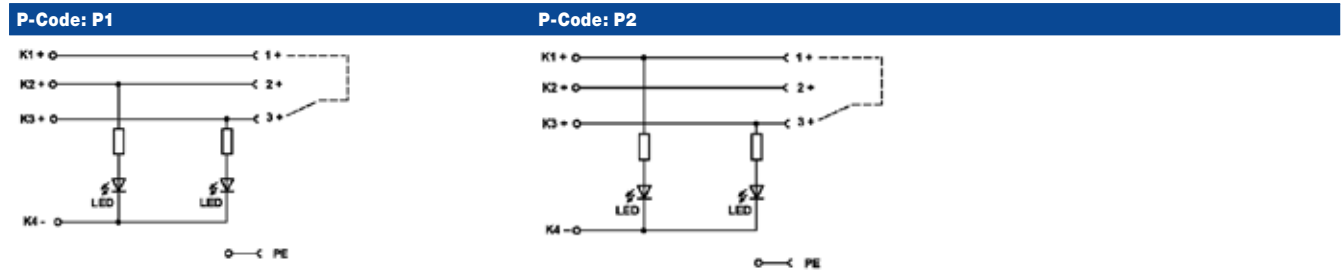
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888006	GDM21F6-C2Y	2 + PE	yellow LED, RC filter	M16 x 1.5	230 V AC/DC	10 A	  
934888042	GDM21FA-C2Y	2 + PE	yellow LED, RC filter	M20 x 1.5	230 V AC/DC	10 A	  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, for Pressure Switch Applications

Technical Information

Product Description		
Order Designation	GDM31FX-P1X	GDM31FX-P2X
		
Description	Valve connector GDM series, type A, female connector field attachable, for pressure switches, status indicator for make/break contact	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE, SEV	
Connectible Cables	Ø 4.5 to 10 mm	
Conductor Size	0.25 x 1.5 mm²	
Technical Data		
No. of Pins	3 + PE	
Ambient Temperature	-25 °C to +90 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
O-Ring Material	SBR/NBR	
Flammability Class	HB	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	Green/yellow LED, pressure switch: P1-P4 (operation)/P3-P4 (function)	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	24 V DC, 230 V AC/DC	
Rated Current	10 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	Gasket: 735-677-003, NBR, Temp. range: -25 °C to +90 °C, captive gasket GDMF-6 NBR, black 735-677-004, EPDM, Temp. range: -25 °C to +120 °C, captive gasket GDMF-6 EPDM, brown 730-801-002, NBR, Temp. range: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731-739-004, EPDM, Temp. range: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731-531-002, NBR, Temp. range: -30 °C to +90 °C, profiled gasket GDM 3-16, black 735-823-002, EPDM Temp. range: -40 °C to +125 °C, profiled gasket GDM 3-24, brown Central screw: 732488002, knurled screw (gray), GDM 3011-7 734363001, stainless steel screw, GDM 3011 RF-1 735507002, torx screw, GDM 3011-18	
Technical Drawing		
		

Circuit Diagram

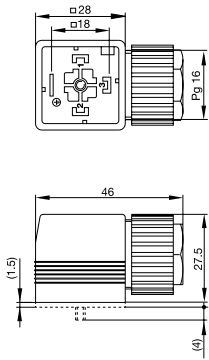
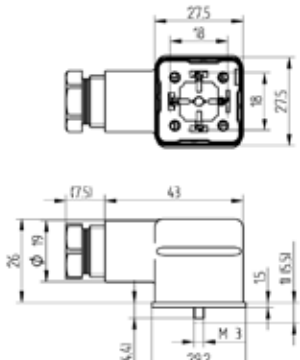


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934888021	GDM31F6-P1J	3 + PE	red/green LED, no protection circuit	M16 x 1.5	24 V DC	10 A	VDE  
934888022	GDM31F6-P1N	3 + PE	red/green LED, no protection circuit	M16 x 1.5	230 V AC/DC	10 A	VDE  
934888023	GDM31F6-P2J	3 + PE	red/green LED, no protection circuit	M16 x 1.5	24 V DC	10 A	VDE  
934888024	GDM31F6-P2N	3 + PE	red/green LED, no protection circuit	M16 x 1.5	230 V AC/DC	10 A	VDE  
934888057	GDM31FA-P1J	3 + PE	red/green LED, no protection circuit	M20 x 1.5	24 V DC	10 A	VDE  
934888058	GDM31FA-P1N	3 + PE	red/green LED, no protection circuit	M20 x 1.5	230 V AC/DC	10 A	VDE  
934888059	GDM31FA-P2J-10D	3 + PE	red/green LED, no protection circuit	M20 x 1.5	24 V DC	10 A	VDE  
11108	GDM31FA-P2N	3 + PE	red/green LED, no protection circuit	M20 x 1.5	230 V AC/DC	10 A	VDE  

GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Flat-Line, no Circuit, with/without LED

Technical Information

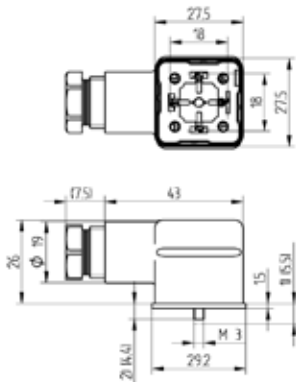
Product Description		
Order Designation	GDMF 3009	GDMF XX16 DXAA
		
Description	Valve connector GDM series, type A, female connector, field attachable, without LED	Valve connector GDM series, type A, female connector, field attachable, with/without LED
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE, SEV	
Connectible Cables	Ø 6 to 7 mm	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm²	
Technical Data		
No. of Pins	3 + PE	2 + PE, 3 + PE
Ambient Temperature	-40 °C to +90 °C (with PCB), -40 °C to +125 °C (without PCB)	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn	
Central Screw	4.8, Fe/Zn B	
O-Ring Material	SBR/NBR	
Flammability Class	HB	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	Unwired without LED, no protection circuit	Unwired with/without LED, no protection circuit with/without LED
Contact Resistance	≤ 4 mΩ	
Operating Voltage	230 V AC/DC	24 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	10 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	Gasket: 730801002, NBR, temp.: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731739004, EPDM, temp.: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731740002, MPQ, temp.: -40 °C to +125 °C, flat gasket GDM 3-17, red 731531002, NBR, temp.: -30 °C to +90 °C, profile gasket GDM 3-16, black 731532002, VMQ, temp.: -40 °C to +125 °C, profile gasket GDM 3-19, red 735823002, EPDM, temp.: -40 °C to +125 °C, profile gasket GDM 3-24, brown	
Technical Drawing		
		

Circuit Diagram**Order Information**

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
933944100	GDMF 3009 black	3 + PE	No protection circuit	PG16	230 V AC/DC	10 A	  
934618001	GDMF 2016 DAAA	2 + PE	No protection circuit	M16 x 1.5	230 V AC/DC	10 A	  
934618002	GDMF 3016 DAAA	3 + PE	No protection circuit	M16 x 1.5	230 V AC/DC	10 A	  
934618010	GDMF 2116 DAAA	2 + PE	No protection circuit	M16 x 1.5	230 V AC/DC	10 A	   
934618011	GDMF 3116 DAAA	3 + PE	No protection circuit	M16 x 1.5	230 V AC/DC	10 A	   
934618003	GDMF 2016 DBAA	2 + PE	yellow LED, no protection circuit	M16 x 1.5	24 V AC/DC	10 A	  
934618004	GDMF 2016 DCAA	2 + PE	yellow LED, no protection circuit	M16 x 1.5	120 V AC/DC	10 A	  
934618005	GDMF 2016 DEAA	2 + PE	yellow LED, no protection circuit	M16 x 1.5	230 V AC/DC	10 A	  

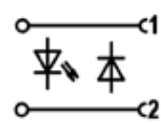
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Flat-Line, Protection Circuit: Recovery Diode and LED

Technical Information

Product Description	
Order Designation	GDMF 2016 DGAA
	
Description	Valve connector GDM series, type A, female connector, field attachable, with LED
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-40 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Recovery diode, yellow LED
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 730801002, NBR, temp.: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731739004, EPDM, temp.: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731740002, MPQ, temp.: -40 °C to +125 °C, flat gasket GDM 3-17, red 731531002, NBR, temp.: -30 °C to +90 °C, profile gasket GDM 3-16, black 731532002, VMQ, temp.: -40 °C to +125 °C, profile gasket GDM 3-19, red 735823002, EPDM, temp.: -40 °C to +125 °C, profile gasket GDM 3-24, brown
Technical Drawing	
	

Circuit Diagram

2 + PE, with LED, Type DG

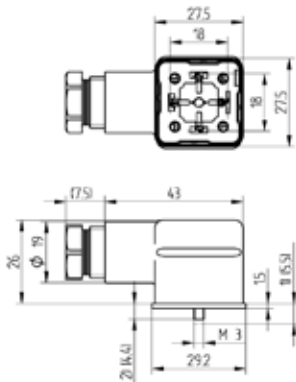


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934618007	GDMF 2016 DGAA	2 + PE	Recovery diode, yellow LED	M16 x 1.5	24 V DC	10 A	  

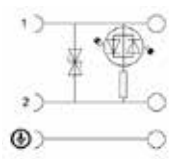
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Flat-Line, Protection Circuit: Suppressor Diode and LED

Technical Information

Product Description	
Order Designation	GDMF 2016 DFAA
	
Description	Valve connector GDM series, type A, female connector, field attachable, with LED
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-40 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Suppressor diode, yellow LED
Contact Resistance	≤ 4 mΩ
Operating Voltage	24 V AC/DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 730801002, NBR, temp.: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731739004, EPDM, temp.: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731740002, MPQ, temp.: -40 °C to +125 °C, flat gasket GDM 3-17, red 731531002, NBR, temp.: -30 °C to +90 °C, profile gasket GDM 3-16, black 731532002, VMQ, temp.: -40 °C to +125 °C, profile gasket GDM 3-19, red 735823002, EPDM, temp.: -40 °C to +125 °C, profile gasket GDM 3-24, brown
Technical Drawing	
	

Circuit Diagram

2 + PE, with LED, Type DF

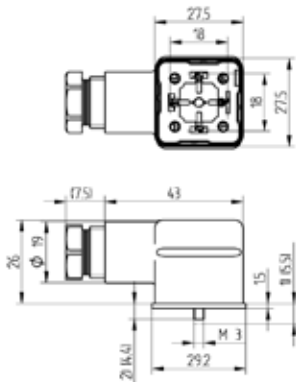


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934618006	GDMF 2016 DFAA	2 + PE	yellow LED, suppressor diode	M16 x 1.5	24 V AC/DC	10 A	  

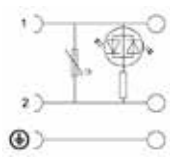
GDM Series Valve Connectors, Type A, Field Attachable Female Connectors, Flat-Line, Protection Circuit: Varistor and LED

Technical Information

Product Description	
Order Designation	GDMF 2016 DXAA
	
Description	Valve connector GDM series, type A, female connector, field attachable, with LED
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175301-803-A
Approvals	VDE, SEV
Connectible Cables	Ø 4.5 to 10 mm
Conductor Size	0.25 x 1.5 mm ²
Technical Data	
No. of Pins	2 + PE
Ambient Temperature	-40 °C to +90 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	CuZn
Central Screw	4.8, Fe/Zn B
O-Ring Material	SBR/NBR
Flammability Class	HB
Mechanical Data	
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Screw
Electrical Data	
Circuit	Varistor, yellow LED
Contact Resistance	≤ 4 mΩ
Operating Voltage	120 V AC/DC, 230 V AC/DC
Rated Current	10 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Central screw
Accessories to be Ordered Separately	Gasket: 730801002, NBR, temp.: -30 °C to +90 °C, flat gasket GDM 3-7, brown 731739004, EPDM, temp.: -40 °C to +125 °C, flat gasket GDM 3-21, brown 731740002, MPQ, temp.: -40 °C to +125 °C, flat gasket GDM 3-17, red 731531002, NBR, temp.: -30 °C to +90 °C, profile gasket GDM 3-16, black 731532002, VMQ, temp.: -40 °C to +125 °C, profile gasket GDM 3-19, red 735823002, EPDM, temp.: -40 °C to +125 °C, profile gasket GDM 3-24, brown
Technical Drawing	
	

Circuit Diagram

2 + PE, with LED, Type DL/DR

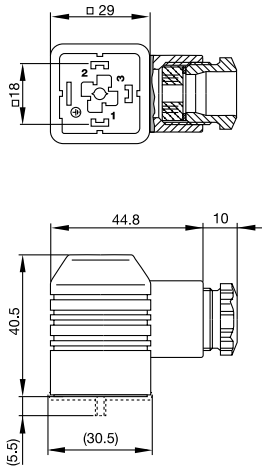
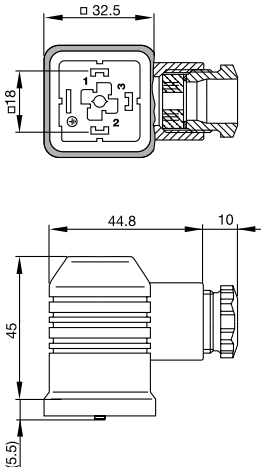


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
934618008	GDMF 2016 DLAA	2 + PE	Varistor, yellow LED	M16 x 1.5	230 V AC/DC	10 A	  
934618009	GDMF 2016 DRAA	2 + PE	Varistor, yellow LED	M16 x 1.5	120 V AC/DC	10 A	  

GDM Series Rectangular Connectors, Type A, Field Attachable Female Connectors, for High Temperature Applications

Technical Information

Product Description		
Order Designation	GDMW 3011 CF	GDMW 30XX DF
		
Description	Rectangular connector, type A for heating devices as per DIN VDE 0722 Section 1–2 and gas safety shut-off devices as per DIN 3394 Part 1, female connector, field attachable	Rectangular connector, type A for heating devices as per DIN VDE 0722 Section 1–2 and gas safety shut-off devices as per DIN 3394 Part 1, female connector, field attachable
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE	
Connectible Cables	Ø 4.5 to 11 mm	Ø 4.5 to 11 mm, Ø 8 to 14 mm
Conductor Size	0.25 x 1.5 mm²	
Technical Data		
No. of Pins	3 + PE	
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	Central screw
Accessories to be Ordered Separately	(NBR) flat gasket GDM 3-7, Order No. 730801002 (EPDM) flat gasket GDM 3-21, Order No. 731739004 Profile gasket GDM 3-16, Order No. 731531002 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001	(NBR) flat gasket GDM 3-7, Order No. 730801002 (EPDM) flat gasket GDM 3-21, Order No. 731739004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001
Technical Drawing		
		

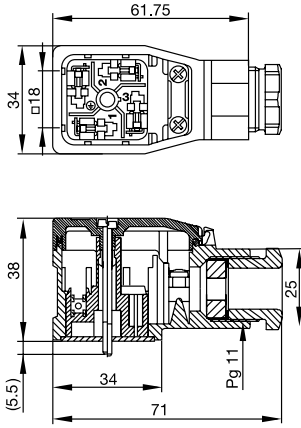
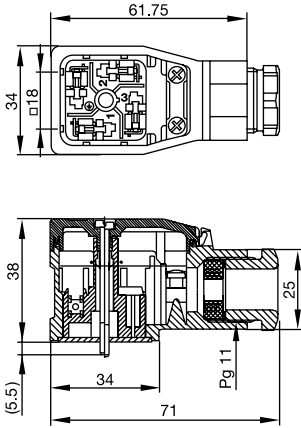
Order Information

Order No.	Order Designation	No. of Pins	Cable Gland	Operating Voltage	Rated Current	Characteristics
932545200	GDMW 3011 CF black	3 + PE	PG11	230 V AC/DC	16 A	    
932547200	GDMW 3011 DF black	3 + PE	PG11	230 V AC/DC	16 A	    
932643300	GDMW 3020 DF black	3 + PE	M20 x 1.5	230 V AC/DC	16 A	   

Other housing colors available upon request.

GDM Series Rectangular Connectors, Type A, Field Attachable Female Connectors, for Special Applications

Technical Information

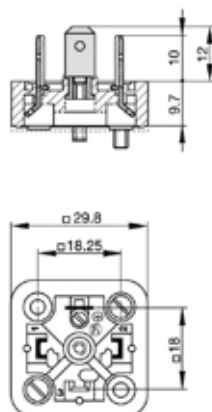
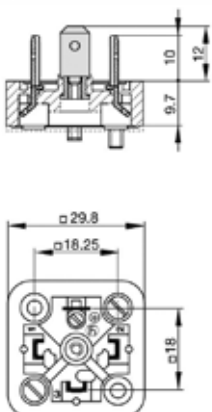
Product Description		
Order Designation	GDME X0XX	GDME 2011 Timer
		
Description	Rectangular connector, type A, female connector, field attachable with central screw M3 x 40, strain relief and transparent cover, electronic insert can be installed	Rectangular connector, type A, female connector, field attachable with central screw M3 x 40, strain relief and transparent cover, electronic insert can be installed
Note	–	Female connector with integrated timer switching, switch-on/off times independent of each other, adjustable via potentiometer, 8 different switching programs with function indicator (LED) and integrated protection circuit, gasket supplied
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175301-803-A	
Approvals	VDE in general/GL (for the non PCB-Version)	
Connectible Cables	Ø 4.5 to 11 mm, Ø 10 to 14 mm, Ø 8 to 14 mm	Ø 4.5 to 11 mm
Conductor Size	Max. 1.5 mm²	
Technical Data		
No. of Pins	2 + PE, 3 + PE	2 + PE
Ambient Temperature	-40 °C to +125 °C	-30 °C to +60 °C
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	48 V AC/24 V DC
Rated Current	16 A	2 A
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Central screw	
Accessories to be Ordered Separately	(NBR) flat gasket GDM 3-7, Order No. 730801002 (EPDM) flat gasket GDM 3-21, Order No. 731739004 Knurled screw GDME 3N-7, Order No. 732280001 (For additional units see "Accessories.")	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
933029100	GDME 2011 black	2 + PE	No protection circuit	PG11	400 V AC/DC	16 A	  
933030100	GDME 2013 black	2 + PE	No protection circuit	PG13.5	400 V AC/DC	16 A	  
933034100	GDME 2014 black	2 + PE	No protection circuit	—	400 V AC/DC	16 A	  
933719100	GDME 2011 Timer black	2 + PE	LED, no protection circuit	PG11	48 V AC/24 V DC	1 A	  
933022100	GDME 3011 black	3 + PE	No protection circuit	PG11	400 V AC/DC	16 A	  
933031100	GDME 3013 black	3 + PE	No protection circuit	PG13.5	400 V AC/DC	16 A	  
934455100	GDME 3020 black	3 + PE	No protection circuit	M20 x 1.5	400 V AC/DC	16 A	  

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

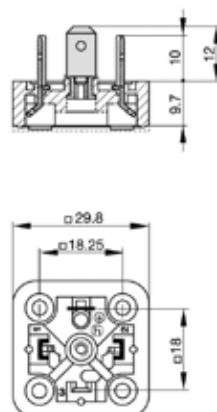
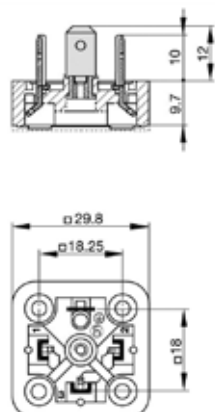
Product Description		
Order Designation	GSA 2000	GSA 3000
		
Description	Male appliance connector with retaining nut, 2 screws M3 x 10 and 1 screw M3 x 5, longitudinal slots, open nut	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR, VDE, SEV, CSA	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required; only when mounted and mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder, holes for soldering on both sides (ground contact: screw)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
932591100	GSA 2000 black	2 + PE	solder, holes for soldering on both sides (ground contact: screw)
932597100	GSA 3000 black	3 + PE	solder, holes for soldering on both sides (ground contact: screw)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

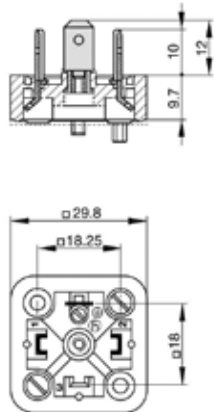
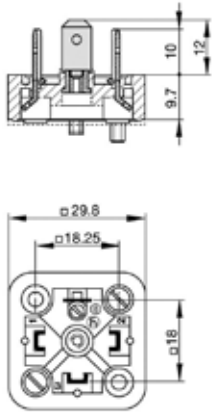
Product Description		
Order Designation	GSA 2000 A	GSA 3000 A
		
Description	Male appliance connector with retaining nut, no screws, longitudinal holes, closed nut	Male appliance connector with retaining nut, 2 screws M3 x 10 and 1 screw M3 x 5, open nut
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR, VDE, SEV, CSA	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required; only when mounted and mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder (ground contact: screw)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
932592500	GSA 2000 A black	2 + PE	solder (ground contact: screw)
932598500	GSA 3000 A black	3 + PE	solder (ground contact: screw)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

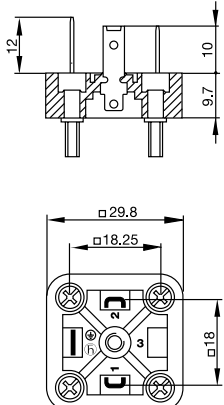
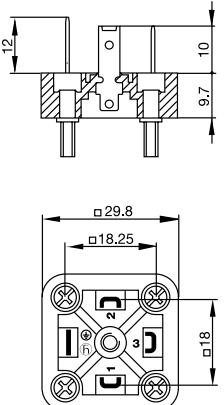
Product Description		
Order Designation	GSA 2000 N	GSA 3000 N
		
Description	Male appliance connector with retaining nut, 2 screws M3 x 10 and 1 screw M3 x 5, open nut	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR, VDE, SEV, CSA	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required; only when mounted and mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder (ground contact: screw)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
932967100	GSA 2000 N black	2 + PE	solder (ground contact: screw)
932968100	GSA 3000 N black	3 + PE	solder (ground contact: screw)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

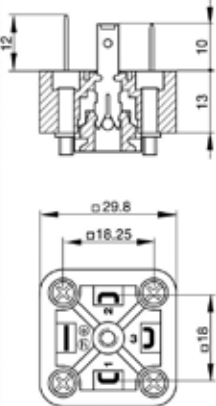
Product Description		
Order Designation	GSA-U 2000 N L0 black	GSA-U 3000 N L0 black
		
Description	Overmolded male appliance connector (IP65 unplugged), with 4 Phillips screws and solder lug for flexible cables	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (when mounted with correct Hirschmann gasket)	
Terminal Type	Solder (ground contact: screw)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
933378100	GSA-U 2000 N LO black	2 + PE	solder (ground contact: screw)
933379100	GSA-U 3000 N LO black	3 + PE	solder (ground contact: screw)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

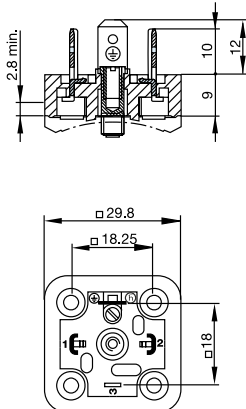
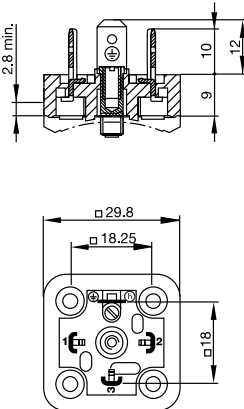
Product Description	
Order Designation	GSA-U 3075 SK black
	
Description	Overmolded male appliance connector (IP65 unplugged), with 4 Phillips screws and insulation displacement contact (without solder/screw)
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175 301-803-A
Approvals	UR
Technical Data	
No. of Pins	3 + PE
Ambient Temperature	-40 °C to +125 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	SN
Mechanical Data	
Degree of Protection	IP65 (when mounted with correct Hirschmann gasket)
Terminal Type	Insulation displacement contact (0.75 mm²), bunched conductor diameter including insulation max. 2.4 mm
Electrical Data	
Circuit	No protection circuit
Contact Resistance	≤ 4 mΩ
Operating Voltage	400 V AC/DC
Rated Current	16 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003
Technical Drawing	
	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
933381100	GSA-U 3075 SK black	3 + PE	Insulation displacement contact (0.75 mm²)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

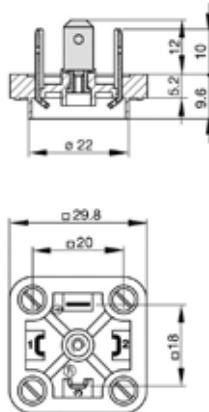
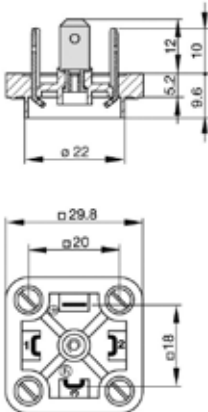
Product Description		
Order Designation	GSAZ 200 black	GSAZ 300 black
		
Description	Male appliance connector for cylinder profile gasket GSAZ, front connection, 1 hollow screw, 1 screw M3 x 5	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR, VDE, SEV	VDE, SEV
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when plugged in, only when mounted and mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder, holes for soldering on both sides (ground contact: screw)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSAZ 35/43, Order No. 733262002 (NBR) flat gasket GSAZ 40/62, Order No. 733264002 (NBR) flat gasket GSAZ 60/120, Order No. 733266002	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
932429100	GSAZ 200 black	2 + PE	solder, holes for soldering on both sides (ground contact: screw)
932430100	GSAZ 300 black	3 + PE	solder, holes for soldering on both sides (ground contact: screw)

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

Product Description		
Order Designation	GSE 2000 N4	GSE 3000 N4
		
Description	Male appliance connector for installation in sheet metal, rotating round collar, retaining nut and 4 screws M3 x 6	Male appliance connector for installation in sheet metal, rotating round collar, retaining nut and 4 screws M3 x 6
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	VDE, SEV	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when plugged in, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSE 2000-2, Order No. 733973002 (EPDM) flat gasket GSA 200-7, Order No. 730268003	
Technical Drawing		
		

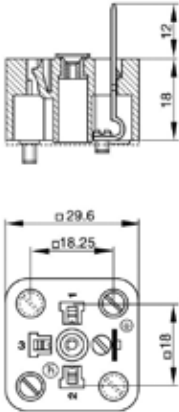
Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
932886100	GSE 2000 N4 black	2 + PE	solder
932890100	GSE 3000 N4 black	3 + PE	solder

GDM Series Rectangular Receptacle Connectors, Type A

Technical Information

Product Description	
Order Designation	GSC 300
	
Description	Male appliance connector with retaining nut, earthing contact, 2 screws M3 x 10 and 1 screw M3 x 5, without contacts
RoHS-Compliant (2011/65/EU)	Yes
(Construction Type) Standard	DIN EN 175 301-803-A
Approvals	VDE, SEV
Technical Data	
No. of Pins	2 + PE, 3 + PE
Ambient Temperature	-40 °C to +125 °C
Housing/Grip/Screw Coupling	PA
Contact Holder	PA
Contact	SN
Mechanical Data	
Degree of Protection	IP65 (gasket required, only when plugged in, only when mated with Hirschmann/Lumberg counterparts)
Terminal Type	Crimping (ground contact: screw)
Electrical Data	
Circuit	No protection circuit
Contact Resistance	≤ 4 mΩ
Operating Voltage	400 V AC/DC
Rated Current	16 A
Pollution Degree	3
Accessories	
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200
Accessories to be Ordered Separately	(NBR) flat gasket GSA 200-4, Order No. 730843002 (EPDM) flat gasket GSA 200-7, Order No. 730268003 Crimp contacts RMC 480, Order No. 731470021 Crimping tool XZC 0702, Order No. 932507009

Technical Drawing	
	

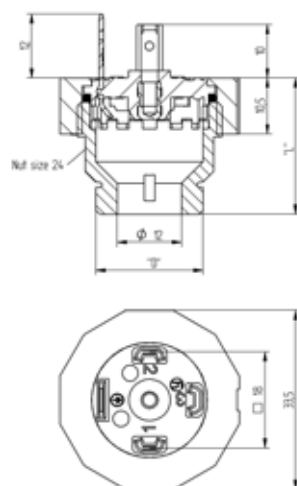
Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
931382100	GSC 300 black	3 + PE	crimping (ground contact: screw)

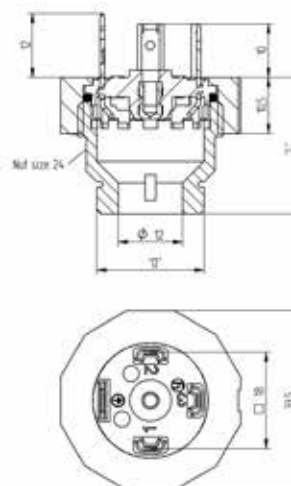
GDM Series Round Receptacle Connectors, Type A

Technical Information

Product Description		
Order Designation	GSP 2XX XXX	GSP 3XX XXX
		
Description	Male appliance connector with connecting thread, grip ring, O-ring (NBR)	Male appliance connector with connecting thread, grip ring, O-ring (NBR)
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	VDE, SEV	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when plugged in, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	—	
Technical Drawing		



Typ / type	Gewinde/ thread "GP"	Länge/ length "L"
GSP 211 PG11	PG 11	ca. 25,5 mm
GSP 212 1/2" NPTF	1/2" NPTF	ca. 34,0 mm
GSP 213 PG13,5	PG 13,5	ca. 25,5 mm
GSP 2 M20	M 20	ca. 25,5 mm



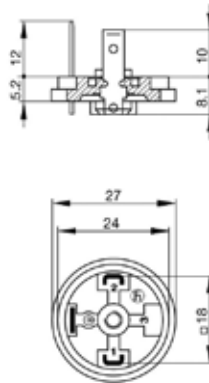
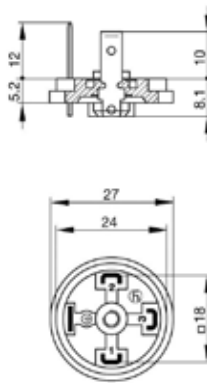
Typ / type	Gewinde/ thread "GP"	Länge/ length "L"
GSP 311 PG11	PG 11	ca. 25,5 mm
GSP 312 1/2" NPTF	1/2" NPTF	ca. 34,0 mm
GSP 313 PG13,5	PG 13,5	ca. 25,5 mm
GSP 314 PG16	PG 16	ca. 25,5 mm
GSP 3 M20	M 20	ca. 25,5 mm

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Cable Gland
931298001	GSP 211 PG11 black	2 + PE	solder	PG11
931298004	GSP 212 1/2" NPTF black	2 + PE	solder	1/2" NPTF
931298003	GSP 213 PG13.5 black	2 + PE	solder	PG13.5
931298006	GSP 2 M20 black	2 + PE	solder	M20
931297001	GSP 311 PG11 black	3 + PE	solder	PG11
931297004	GSP 312 1/2" NPTF black	3 + PE	solder	1/2" NPTF
931297003	GSP 313 PG13.5 black	3 + PE	solder	PG13.5
931297002	GSP 316 PG16 black	3 + PE	solder	PG16
931297006	GSP 3 M20 black	3 + PE	solder	M20

GDM Series Round Receptacle Connectors, Type A

Technical Information

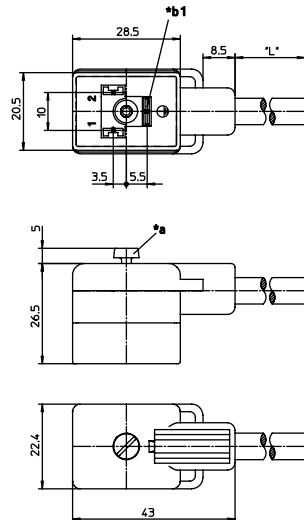
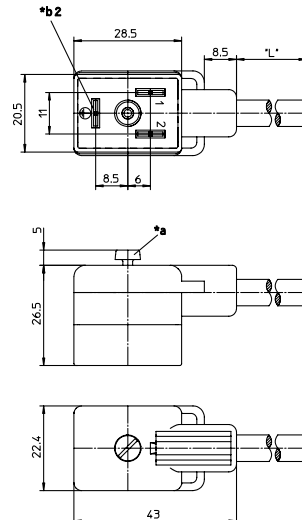
Product Description		
Order Designation	GSR-U 2000 L0	GSR-U 3000 L0
		
Description	Male appliance connector for overmolding (IP65), with solder lug for flexible cables	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-A	
Approvals	UR	
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	SN	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when plugged in, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	400 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	—	
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
933377100	GSR-U 2000 LO black	2 + PE	solder
933376100	GSR-U 3000 LO black	3 + PE	solder

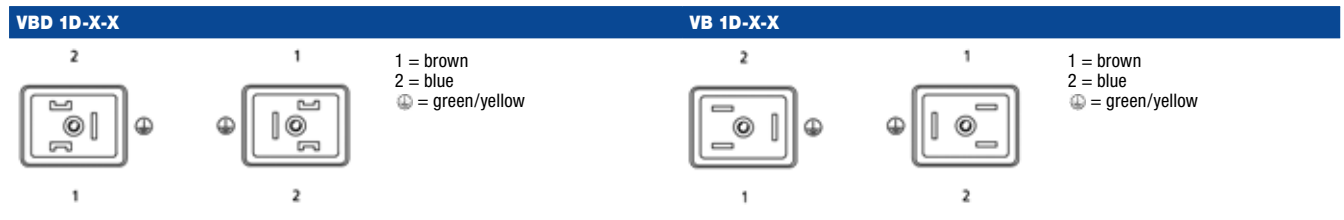
GDM Series Valve Connectors, Type B, Overmolded Female Connectors, DIN Standard and Industrial Standard, no Circuit

Technical Information

Product Description		
Order Designation	VBD 1D X-X	VB 1D-X-X
		
Description	DIN standard, no circuit	Industrial standard, no circuit
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	–	
Cables	PVC, PUR	
Connectible Cables	–	
Conductor Size	0.50 mm² or 0.75 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-25 °C to +80 °C	
Housing/Grip/Screw Coupling	TPU	
Contact Holder	PBT	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 5 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	4 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	–	
Technical Drawing		
		

1D-X-X: L = Standard length of cable • *a = M3 screw • *b1 = Cable outlet 0°
 1D-X-X: L = Standard length of cable • *a = M3 screw • *b2 = Cable outlet 180°

Pin Assignment



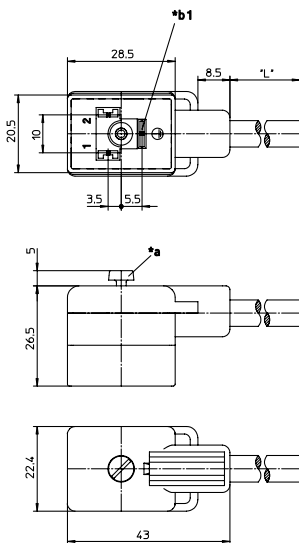
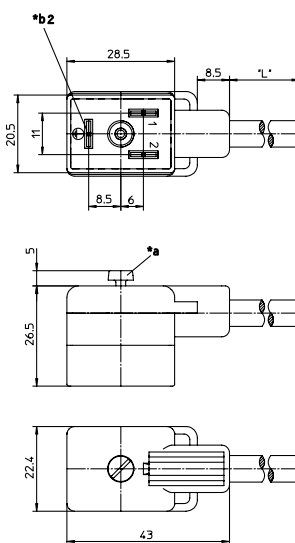
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
12253	VBD 1D-3-1-205/2 M	2 + PE	2 M	230 V AC/DC	0.75 mm ²	PVC, black	
12254	VBD 1D-3-1-205/5 M	2 + PE	5 M	230 V AC/DC	0.75 mm ²	PVC, black	
2237	VBD 1D-3-1-205/10 M	2 + PE	10 M	230 V AC/DC	0.75 mm ²	PVC, black	
12255	VBD 1D-3-2-205/2 M	2 + PE	2 M	230 V AC/DC	0.75 mm ²	PVC, black	
12256	VBD 1D-3-2-205/5 M	2 + PE	5 M	230 V AC/DC	0.75 mm ²	PVC, black	
46943	VBD 1D-3-2-205/10 M	2 + PE	10 M	230 V AC/DC	0.75 mm ²	PVC, black	
12213	VB 1D-3-1-205/2 M	2 + PE	2 M	230 V AC/DC	0.75 mm ²	PVC, black	
12214	VB 1D-3-1-205/5 M	2 + PE	5 M	230 V AC/DC	0.75 mm ²	PVC, black	
46935	VB 1D-3-1-205/10 M	2 + PE	10 M	230 V AC/DC	0.75 mm ²	PVC, black	
12215	VB 1D-3-2-205/2 M	2 + PE	2 M	230 V AC/DC	0.75 mm ²	PVC, black	
12216	VB 1D-3-2-205/5 M	2 + PE	5 M	230 V AC/DC	0.75 mm ²	PVC, black	
46936	VB 1D-3-2-205/10 M	2 + PE	10 M	230 V AC/DC	0.75 mm ²	PVC, black	

Conversion table mm² to AWG on page 20.

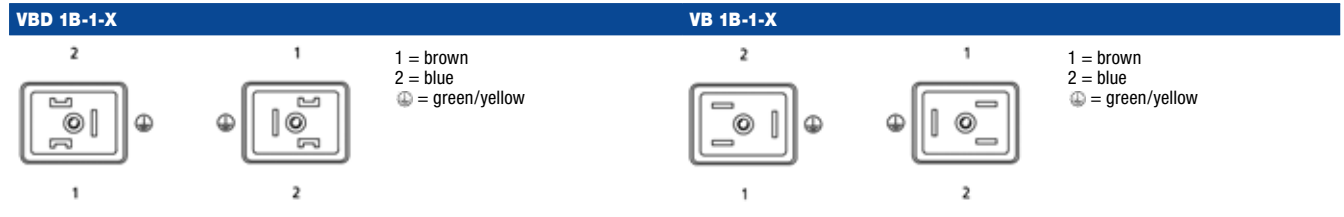
GDM Series Valve Connectors, Type B, Overmolded Female Connectors, DIN Standard and Industrial Standard, Protection Circuit: Suppressor Diode with LED

Technical Information

Product Description		
Order Designation	VBD 1B-1-X	VB 1B-1-X
		
Description	Valve connector GDM series, type B, DIN standard, female connector overmolded, with function indicator (LED) and protection circuit (suppressor diode)	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	–	
Cables	PVC, PUR	
Connectible Cables	–	
Conductor Size	3 x 0.5 mm ²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-25 °C to +80 °C	
Housing/Grip/Screw Coupling	TPU	
Contact Holder	PBT	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	Suppressor diode with LED	
Contact Resistance	≤ 5 mΩ	
Operating Voltage	24 V AC/DC	
Rated Current	4 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Label, screw mounted	
Technical Drawing		
		

1B-1-1: L = Standard length of cable • *a = M3 screw • *b1 = Cable outlet 0°
 1B-1-2: L = Standard length of cable • *a = M3 screw • *b2 = Cable outlet 180°

Pin Assignment



Circuit Diagram



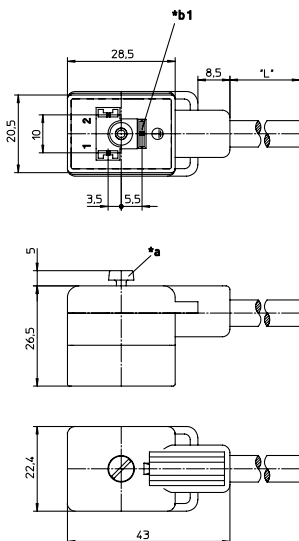
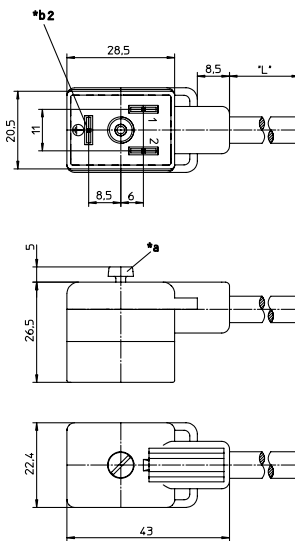
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
12245	VBD 1B-1-1-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12246	VBD 1B-1-1-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
46938	VBD 1B-1-1-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
43899	VBD 1B-1-1-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
44565	VBD 1B-1-1-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
46939	VBD 1B-1-1-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	
12251	VBD 1B-1-2-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12252	VBD 1B-1-2-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
11099	VBD 1B-1-2-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
43901	VBD 1B-1-2-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
43903	VBD 1B-1-2-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
46941	VBD 1B-1-2-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	
12205	VB 1B-1-1-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12206	VB 1B-1-1-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
46931	VB 1B-1-1-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
16080	VB 1B-1-1-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
44674	VB 1B-1-1-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
46932	VB 1B-1-1-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	
12211	VB 1B-1-2-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12212	VB 1B-1-2-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
11098	VB 1B-1-2-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
16081	VB 1B-1-2-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
44400	VB 1B-1-2-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
46934	VB 1B-1-2-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	

Conversion table mm² to AWG on page 20.

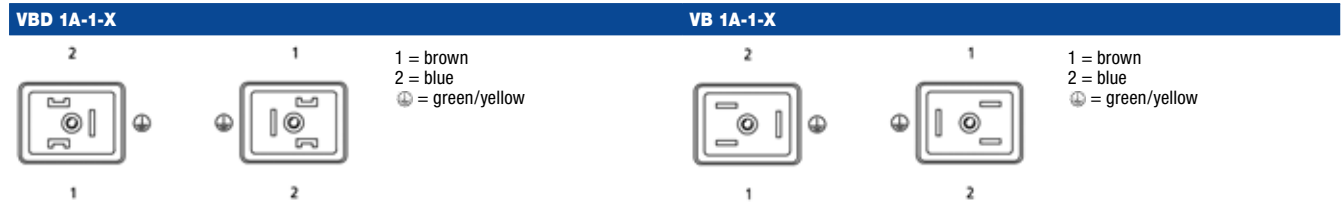
GDM Series Valve Connectors, Type B, Overmolded Female Connectors, DIN Standard and Industrial Standard, Protection Circuit: Varistor with LED

Technical Information

Product Description		
Order Designation	VBD 1A-1-X	VB 1A-1-X
		
Description	Valve connector GDM series, type B, DIN standard, female connector overmolded, with function indicator (LED) and protection circuit (varistor)	Valve connector GDM series, type B, industrial standard, female connector overmolded, with function indicator (LED) and protection circuit (varistor)
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	–	
Cables	PVC, PUR	
Connectible Cables	–	
Conductor Size	0.50 or 0.75 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-25 °C to +80 °C	
Housing/Grip/Screw Coupling	TPU	
Contact Holder	PBT	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	Varistor with LED	
Contact Resistance	≤ 5 mΩ	
Operating Voltage	24 V AC/DC	
Rated Current	4 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Label, screw mounted	
Technical Drawing		
		

1A-1-1: L = Standard length of cable • *a = M3 screw • *b1 = Cable outlet 0°
 1A-1-2: L = Standard length of cable • *a = M3 screw • *b2 = Cable outlet 180°

Pin Assignment



Circuit Diagram



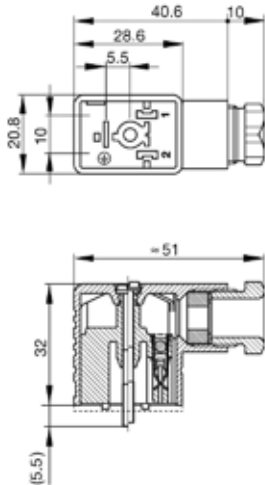
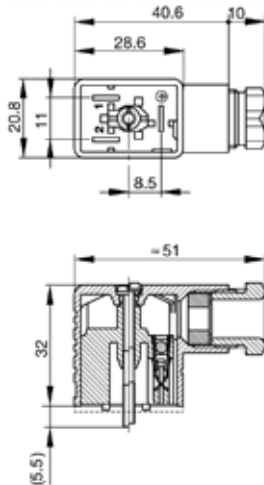
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
12224	VBD 1A-1-1-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12225	VBD 1A-1-1-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
82466	VBD 1A-1-1-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
12226	VBD 1A-1-1-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
12227	VBD 1A-1-1-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
43895	VBD 1A-1-1-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	
12234	VBD 1A-1-2-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12235	VBD 1A-1-2-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
46937	VBD 1A-1-2-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
12236	VBD 1A-1-2-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, black	
12237	VBD 1A-1-2-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, black	
43897	VBD 1A-1-2-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, black	
12189	VB 1A-1-1-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12190	VB 1A-1-1-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
26742	VB 1A-1-1-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
43846	VB 1A-1-1-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	
43848	VB 1A-1-1-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	
43845	VB 1A-1-1-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	
12196	VB 1A-1-2-212/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PVC, black	
12197	VB 1A-1-2-212/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PVC, black	
46929	VB 1A-1-2-212/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PVC, black	
43889	VB 1A-1-2-226/2 M	2 + PE	2 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	
43891	VB 1A-1-2-226/5 M	2 + PE	5 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	
46930	VB 1A-1-2-226/10 M	2 + PE	10 M	24 V AC/DC	0.5 mm ²	PUR, halogen-free, black	

Conversion table mm² to AWG on page 20.

GDM Series Rectangular Connectors, Type B, Field Attachable Female Connectors, DIN Standard and Industrial Standard, without Protection Circuit

Technical Information

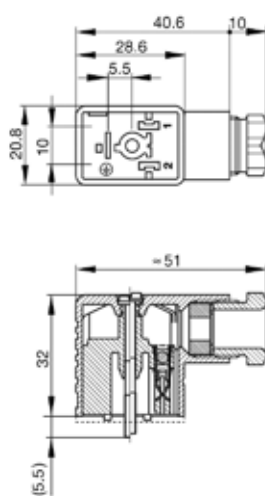
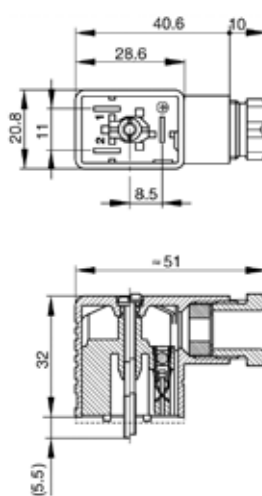
Product Description		
Order Designation	GMN 2XX NJ	GM 2XX NJ
		
Description	Valve connector GDM series, type B, DIN standard, without LED, without circuit	Valve connector GDM series, type B, industrial standard, without LED, without circuit
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-B	Industrial standard
Approvals	VDE/(UL)	
Connectible Cables	Ø 4.5 to 7 mm	
Conductor Size	max. 1.5 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw/terminal lug/crimp ring	
Electrical Data		
Circuit	No protection circuit, no LED	
Contact Resistance	≤ 4 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	2 A	
Pollution Degree	3	
Accessories		
Accessories to be Ordered Separately	(NBR) flat gasket GMN 209-3, Order-No: 733273002 (EPDM) flat gasket GMN 209-12, Order-No: 733271004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001	(NBR) flat gasket GM 207-3, Order-No: 731423002 (EPDM) flat gasket GM 207-7, Order-No: 731755004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
932987100	GMN 209 NJ black	2 + PE	No protection circuit	PG9	230 V AC/DC	2 A	  
932987106	GMN 209 NJ gray	2 + PE	No protection circuit	PG9	230 V AC/DC	2 A	  
934457100	GMN 216 NJ black	2 + PE	No protection circuit	M16	230 V AC/DC	2 A	  
934457106	GMN 216 NJ gray	2 + PE	No protection circuit	M16	230 V AC/DC	2 A	  
932977100	GM 209 NJ black	2 + PE	No protection circuit	PG9	230 V AC/DC	2 A	  
932977106	GM 209 NJ gray	2 + PE	No protection circuit	PG9	230 V AC/DC	2 A	  
934456100	GM 216 NJ black	2 + PE	No protection circuit	M16	230 V AC/DC	2 A	  
934456106	GM 216 NJ gray	2 + PE	No protection circuit	M16	230 V AC/DC	2 A	  

GDM Series Rectangular Connectors, Type B, Field Attachable Female Connectors, DIN Standard and Industrial Standard, without Protection Circuit, LED

Technical Information

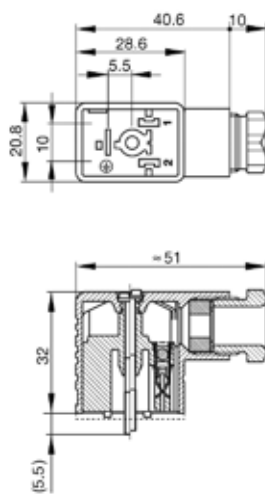
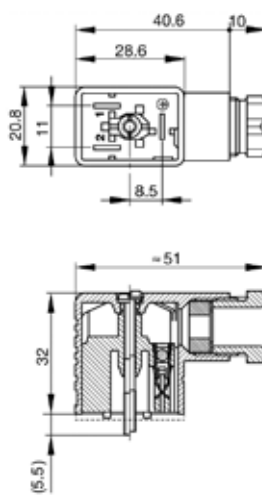
Product Description		
Order Designation	GMNL 2XX NJ LED	GML 2XX NJ LED
		
Description	Valve connector GM series, type B, DIN standard, with function indicator (LED), without protection circuit	Valve connector GM series, type B, industrial standard, with function indicator (LED), without protection circuit
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-B	Industrial standard
Approvals	VDE	
Connectible Cables	Ø 4.5 to 7 mm	
Conductor Size	max. 1.5 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-40 °C to +90 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw/terminal lug/crimp ring	
Electrical Data		
Circuit	No protection circuit, with LED	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	24 V AC/DC, 120 V AC/DC, 230 V AC/DC	
Rated Current	2 A	
Pollution Degree	3	
Accessories		
Accessories to be Ordered Separately	(NBR) flat gasket GMN 209-3, Order-No: 733273002 (EPDM) flat gasket GMN 209-12, Order-No: 733271004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001	(NBR) flat gasket GM 207-3, Order-No: 731423002 (EPDM) flat gasket GM 207-7, Order-No: 731755004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
933572100	GMNL 209 NJ LED 24 YE black	2 + PE	No protection circuit, LED	PG9	24 V AC/DC	8 A	  
933714100	GMNL 209 NJ LED 120 YE black	2 + PE	No protection circuit, LED	PG9	120 V AC/DC	8 A	  
933715100	GMNL 209 NJ LED 230 YE black	2 + PE	No protection circuit, LED	PG9	230 V AC/DC	8 A	  
933715106	GMNL 209 NJ LED 230 YE gray	2 + PE	No protection circuit, LED	PG9	230 V AC/DC	8 A	  
933928100	GML 209 NJ LED 24 black	2 + PE	No protection circuit, LED	PG9	24 V AC/DC	2 A	 
933928106	GML 209 NJ LED 24 gray	2 + PE	No protection circuit, LED	PG9	24 V AC/DC	2 A	 
933931100	GML 209 NJ LED 230 black	2 + PE	No protection circuit, LED	PG9	230 V AC/DC	2 A	 
933571100	GML 209 NJ LED 24 YE black	2 + PE	No protection circuit, LED	M16	24 V AC/DC	2 A	 
933571106	GML 209 NJ LED 24 YE gray	2 + PE	No protection circuit, LED	M16	24 V AC/DC	2 A	 
933712100	GML 209 NJ LED 120 YE black	2 + PE	No protection circuit, LED	PG9	120 V AC/DC	2 A	 
933712106	GML 209 NJ LED 120 YE gray	2 + PE	No protection circuit, LED	PG9	120 V AC/DC	2 A	 
933713100	GML 209 NJ LED 230 YE black	2 + PE	No protection circuit, LED	PG9	230 V AC/DC	2 A	 
933713106	GML 209 NJ LED 230 YE gray	2 + PE	No protection circuit, LED	PG9	230 V AC/DC	2 A	 

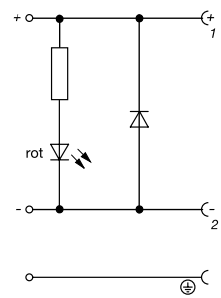
GDM Series Rectangular Connectors, Type B, Field Attachable Female Connectors, DIN Standard and Industrial Standard, Protection Circuit: Recovery Diode with LED

Technical Information

Product Description		
Order Designation	GMNL 2XXX NJ LED 24 HH	GML 2XXX NJ LED 24 HH
		
Description	Valve connector GDM series, type B, DIN standard, female connector field attachable, with function indicator (LED) and protection circuit (recovery diode)	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-B	Industrial standard
Approvals	VDE	
Connectible Cables	Ø 4.5 to 10 mm	
Conductor Size	max. 1.5 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-40 °C to +90 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw/terminal lug/crimp ring	
Electrical Data		
Circuit	Recovery diode, red LED	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	24 V DC	
Rated Current	8 A	
Pollution Degree	3	
Accessories		
Accessories to be Ordered Separately	(NBR) flat gasket GMN 209-3, Order-No: 733273002 (EPDM) flat gasket GMN 209-12, Order-No: 733271004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001	(NBR) flat gasket GM 207-3, Order-No: 731423002 (EPDM) flat gasket GM 207-7, Order-No: 731755004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001
Technical Drawing		
		

Circuit Diagram

GM(N)L 2XXX NJ LED 24 HH

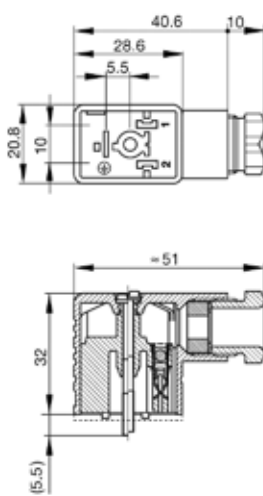
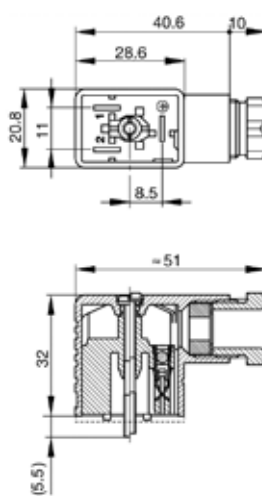


Order Information

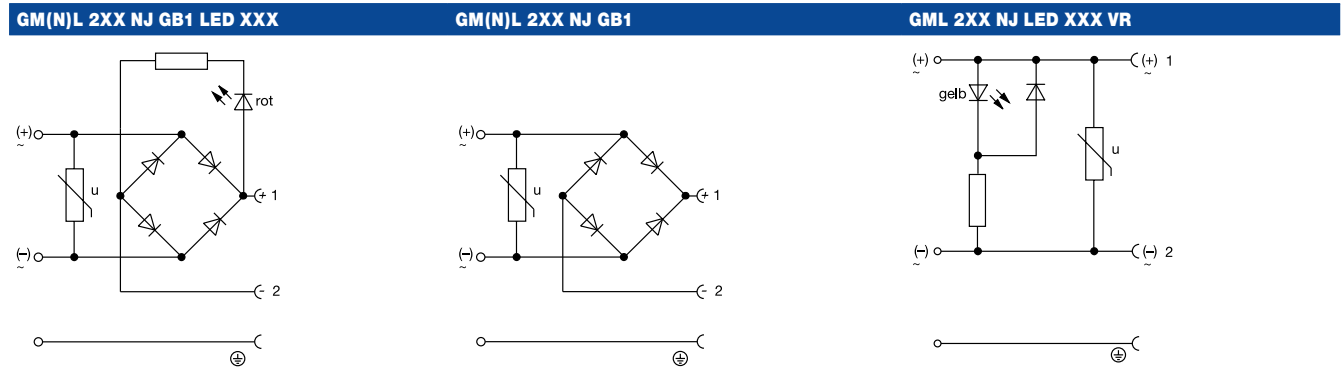
Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Connectible Cables	Characteristics
934460002	GMNL 216 NJ LED 24 HH black	2 + PE	Recovery diode, LED	M16	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  
934460003	GMNL 216 NJ LED 24 HH gray	2 + PE	Recovery diode, LED	M16	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  
933388100	GMNL 209 NJ LED 24 HH black	2 + PE	Recovery diode, LED	PG9	24 V DC	8 A	Ø 4.5 to 7 mm	VDE  
933388106	GMNL 209 NJ LED 24 HH gray	2 + PE	Recovery diode, LED	PG9	24 V DC	8 A	Ø 4.5 to 7 mm	VDE  
934458002	GML 216 NJ LED 24 HH black	2 + PE	Recovery diode, LED	M16	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  
934458003	GML 216 NJ LED 24 HH gray	2 + PE	Recovery diode, LED	M16	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  
933389100	GML 209 NJ LED 24 HH black	2 + PE	Recovery diode, LED	PG9	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  
933389106	GML 209 NJ LED 24 HH gray	2 + PE	Recovery diode, LED	PG9	24 V DC	8 A	Ø 4.5 to 10 mm	VDE  

GDM Series Rectangular Connectors, Type B, Field Attachable Female Connectors, DIN Standard and Industrial Standard, Protection Circuit: Varistor with/without Bridge Rectifier, with/without LED

Technical Information

Product Description		
Order Designation	GML 2XX NJ LED XXX XXX	GML 2XX NJ LED XXX XXX
		
Description	Valve connector GDM series, type B, DIN standard, female connector field attachable, with/without function indicator (LED) and protection circuit (varistor with bridge rectifier)	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-B	Industrial standard
Approvals	VDE	
Connectible Cables	Ø 4.5 to 10 mm	
Conductor Size	max. 1.5 mm²	
Technical Data		
No. of Pins	2 + PE	
Ambient Temperature	-40 °C to +90 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw/terminal lug/crimp ring	
Electrical Data		
Circuit	Varistor with bridge rectifier, with/without LED	Varistor with/without bridge rectifier, with/without LED
Contact Resistance	≤ 10 mΩ	
Operating Voltage	24 V AC/DC, 230 V AC/DC	24 V AC/DC, 120 V AC/DC, 230 V AC/DC
Rated Current	2 A	
Pollution Degree	3	
Accessories		
Accessories to be Ordered Separately	(NBR) flat gasket GMN 209-3, Order-No: 733273002 (EPDM) flat gasket GMN 209-12, Order-No: 733271004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001	(NBR) flat gasket GM 207-3, Order-No: 731423002 (EPDM) flat gasket GM 207-7, Order-No: 731755004 Knurled screw GDM 3011-8, Order No. 732574001 Stainless steel screw GDM 3011 RF-1, Order No. 734363001
Technical Drawing		
		

Circuit Diagram

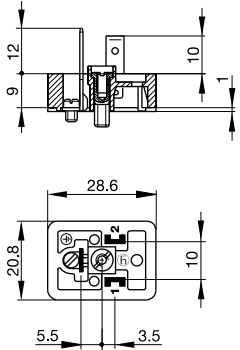
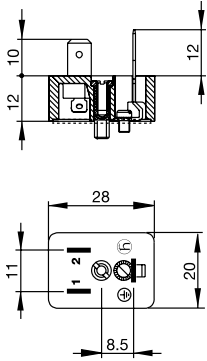


Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
933399100	GMNL 209 NJ GB1 black	2 + PE	Varistor, bridge rectifier	PG9	230 V AC/DC	2 A	
933399106	GMNL 209 NJ GB1 gray	2 + PE	Varistor, bridge rectifier	PG9	230 V AC/DC	2 A	
933400100	GMNL 209 NJ GB1 LED 24 black	2 + PE	Varistor, bridge rectifier, LED	PG9	24 V AC/DC	2 A	
933398100	GML 209 NJ GB1 black	2 + PE	Varistor, bridge rectifier	PG9	230 V AC/DC	2 A	
933398106	GML 209 NJ GB1 gray	2 + PE	Varistor, bridge rectifier	PG9	230 V AC/DC	2 A	
933642100	GML 209 NJ GB1 LED 24 black	2 + PE	Varistor, bridge rectifier, LED	PG9	24 V AC/DC	2 A	
933642106	GML 209 NJ GB1 LED 24 gray	2 + PE	Varistor, bridge rectifier, LED	PG9	24 V AC/DC	2 A	
933933100	GML 209 NJ GB1 LED 230 black	2 + PE	Varistor, bridge rectifier, LED	PG9	230 V AC/DC	2 A	
933933106	GML 209 NJ GB1 LED 230 gray	2 + PE	Varistor, bridge rectifier, LED	PG9	230 V AC/DC	2 A	
934459002	GML 216 NJ LED 24 VR YE black	2 + PE	Varistor, LED	M16	24 V AC/DC	2 A	
934459003	GML 216 NJ LED 24 VR YE gray	2 + PE	Varistor, LED	M16	24 V AC/DC	2 A	
933929100	GML 209 NJ LED 24 VR YE black	2 + PE	Varistor, LED	PG9	24 V AC/DC	2 A	
933929106	GML 209 NJ LED 24 VR YE gray	2 + PE	Varistor, LED	PG9	24 V AC/DC	2 A	
933934100	GML 209 NJ LED 120 VR YE black	2 + PE	Varistor, LED	PG9	120 V AC/DC	2 A	
933932100	GML 209 NJ LED 230 VR YE black	2 + PE	Varistor, LED	PG9	230 V AC/DC	2 A	
933932106	GML 209 NJ LED 230 VR YE gray	2 + PE	Varistor, LED	PG9	230 V AC/DC	2 A	

GDM Series Rectangular Connectors, Type B, Female Receptacle Connectors, DIN Standard and Industrial Standard

Technical Information

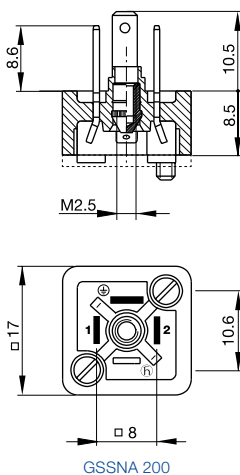
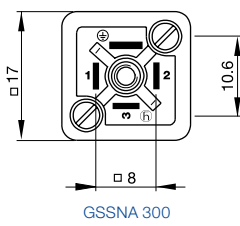
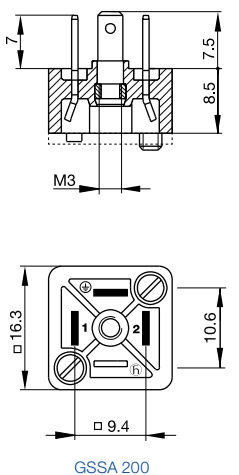
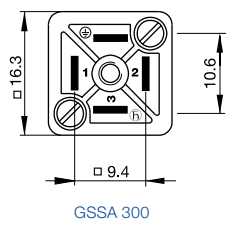
Product Description		
Order Designation	GSN 20	GSA 20
		
Description	Male appliance with central screw (hollow), 1 screw M3 x 4	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803-B	Industrial standard (11 mm)
Approvals	UR, VDE, SEV, CSA	UR, VDE, SEV
Technical Data		
No. of Pins	2 + PE	3 + PE
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA	
Contact Holder	PA	
Contact	CuZn, tin-plated	Sn
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	Solder (ground contact: screw)
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	16 A	
Pollution Degree	3	
Accessories		
Accessories to be Ordered Separately	(NBR) flat gasket GSN 20-3, Order No. 733275002 (EPDM) flat gasket GSN 20-6, Order No. 733270004	(NBR) flat gasket GSA 20-3, Order-No:731490002 (EPDM) flat gasket GSA 20-9, Order-No: 734033003
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Characteristics
932421100	GSN 20 black	2 + PE	solder	 
931352100	GSA 20 black	3 + PE	solder	 

GDM Series Surface Mounted Connectors, Type C as per Standard, Female Receptacle Connectors, DIN Standard and Industrial Standard, without Circuit

Technical Information

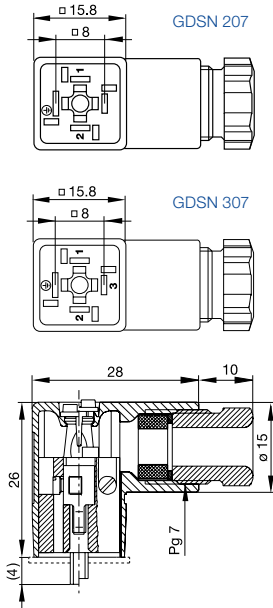
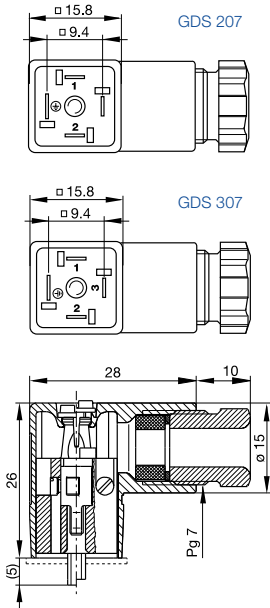
Product Description		
Order Designation	GSSNA X00	GSSA X00
		
Description	Male appliance connector with central screw and 2 screws M2.5 x 8, standard DIN EN 175 301-803-C, open nut	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	UR, VDE, SEV, CSA	
Technical Data		
No. of Pins	2 + PE, 3 + PE	
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA 66	
Contact Holder	PA 66	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	6 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GSSNA 300-5, Order No. 730232002 (EPDM) flat gasket GSSNA 300-6, Order No. 730365004	(NBR) flat gasket GSSA 300-5, Order No. 730233002 (EPDM) flat gasket GSSA 300-6, Order No. 730312003
Technical Drawing		
	 GSSNA 200  GSSNA 300	 GSSA 200  GSSA 300

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
933110100	GSSNA 200	2 + PE	solder
933111100	GSSNA 300	3 + PE	solder
933117100	GSSA 200	2 + PE	solder
933116100	GSSA 300	3 + PE	solder

GDM Series Rectangular Connectors, Type C as per Standard, Field Attachable Female Connectors, DIN Standard and Industrial Standard, without Circuit

Technical Information

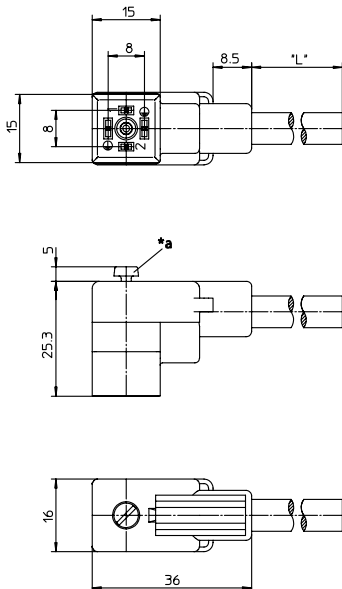
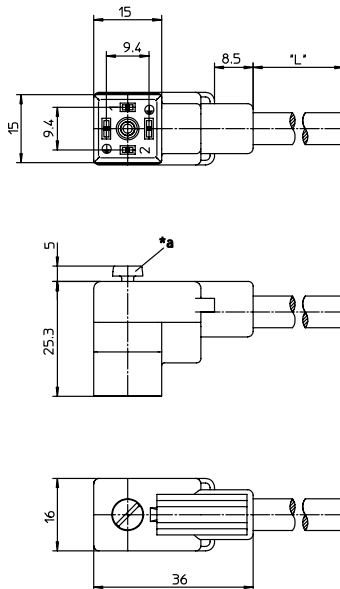
Product Description		
Order Designation	GDSN X07	GDS X07
		
Description	Field attachable rectangular connector with central screw M2.5 x 27, standard DIN EN 175 301-803-C, without circuit	Rectangular connector, female connector field attachable, type C industrial standard (9.4 mm), without circuit, with central screw M2.5 x 27
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	UR, VDE, SEV, CSA	
Connectible Cables	Ø 4.5 to 6 mm	
Conductor Size	max. 0.75 mm²	
Technical Data		
No. of Pins	2 + PE, 3 + PE	
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA 6 GF	
Contact Holder	PA 66	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Screw	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	6 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	(NBR) flat gasket GDSN 307-4, Order No. 733176002 (NBR) flat gasket GDSN 307-5, Order No. 733310004	(NBR) flat gasket GDS 307-2, Order-No:730185002 (EPDM) flat gasket GDS 307-4, Order-No: 730314004
Technical Drawing		
		

Order Information

Order No.	Order Designation	No. of Pins	Circuit	Cable Gland	Operating Voltage	Rated Current	Characteristics
933137106	GDSN 207 gray	2 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933137100	GDSN 207 black	2 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933023106	GDSN 307 gray	3 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933023100	GDSN 307 black	3 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933138106	GDS 207 gray	2 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933138100	GDS 207 black	2 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933024106	GDS 307 gray	3 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  
933024100	GDS 307 black	3 + PE	No protection circuit	PG7	230 V AC/DC	6 A	CSA UL  

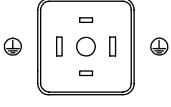
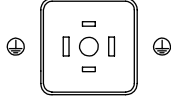
GDM Series Rectangular Connectors, Type C, Female Connectors with Overmolded Cable, DIN Standard and Industrial Standard, no Circuit

Technical Information

Product Description		
Order Designation	VCD 1D-3-3	VC 1D-3-3
		
Description	Rectangular connector, female connector with overmolded gasket and Cable, type C, DIN standard (8.0 mm), ground connection bridged, without circuit	
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	–	
Cables	PVC, PUR	
Connectible Cables	–	
Conductor Size	3 x 0.5 mm²	
Technical Data		
No. of Pins	2 + 2 PE	
Ambient Temperature	-25 °C to +80 °C	
Housing/Grip/Screw Coupling	TPU	
Contact Holder	PBT	
Contact	CuZn, nickel underlay and tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	No protection circuit	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	4 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Label, screw mounted	
Technical Drawing		
		

L = Standard length of cable • *a = M3 screw

Pin Assignment

VCD 1D-3-3	VC 1D-3-3
1  2 1 = brown 2 = blue  = green/yellow	1  2 1 = brown 2 = blue  = green/yellow

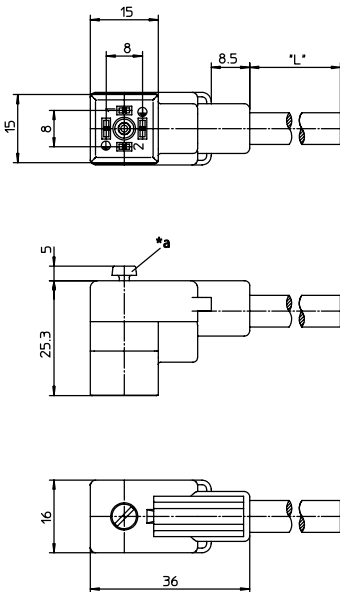
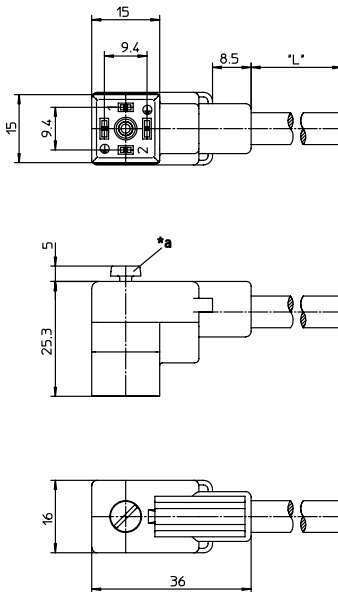
Order Information

Order No.	Order Designation	No. of Pins	Cable Length	Operating Voltage	Conductor Size	Jacket	Characteristics
12281	VCD 1D-3-3-212/2 M	2 + 2 PE	2 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	
12282	VCD 1D-3-3-212/5 M	2 + 2 PE	5 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	
9631	VCD 1D-3-3-212/10 M	2 + 2 PE	10 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	
12265	VC 1D-3-3-212/2 M	2 + 2 PE	2 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	
12266	VC 1D-3-3-212/5 M	2 + 2 PE	5 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	
16217	VC 1D-3-3-212/10 M	2 + 2 PE	10 M	230 V AC/DC	3 x 0.5 mm ²	PVC, black	

Conversion table mm² to AWG on page 20.

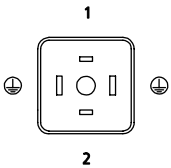
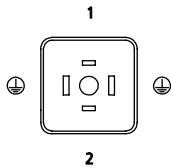
GDM Series Rectangular Connectors, Type C, Female Connectors with Overmolded Cable, DIN Standard and Industrial Standard, Protection Circuit: Varistor

Technical Information

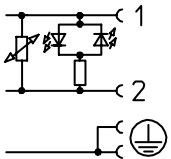
Product Description		
Order Designation	VCD 1A-1-3	VC 1A-1-3
		
Description	Rectangular connector, female connector with overmolded gasket and cable, type C, DIN standard (8.0 mm), ground connection bridged, with protection circuit (varistor)	Rectangular connector, female connector with overmolded gasket and cable, type C, industrial standard (9.4 mm), ground connection bridged, with protection circuit (varistor)
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	–	
Cables	PVC, PUR	
Connectible Cables	–	
Conductor Size	3 x 0.5 mm ²	
Technical Data		
No. of Pins	2 + 2 PE	
Ambient Temperature	-25 °C to +80 °C	
Housing/Grip/Screw Coupling	TPU	
Contact Holder	PBT	
Contact	CuZn, nickel underlay and tin-plated	
Mechanical Data		
Degree of Protection	IP65 (only when mated with Hirschmann/Lumberg counterparts)	
Electrical Data		
Circuit	Varistor	
Contact Resistance	≤ 10 mΩ	
Operating Voltage	24 V AC/DC	
Rated Current	4 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Label, screw mounted	
Technical Drawing		
		

L = Standard length of cable • *a = M3 screw

Pin Assignment

VCD 1A-1-3	VC 1A-1-3
 1 = brown 2 = blue ⊕ = green/yellow	 1 = brown 2 = blue ⊕ = green/yellow

Circuit Diagram

VCD 1A/VC 1A


Order Information

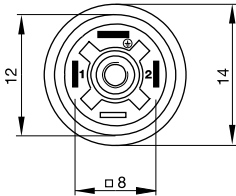
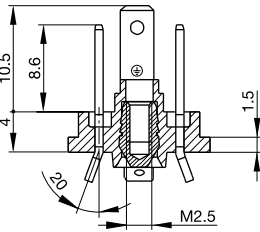
Order No.	Order Designation	No. of Pins	Cable Length	Conductor Size	Jacket	Characteristics
12274	VCD 1A-1-3-212/2 M	2 + 2 PE	2 M	3 x 0.5 mm ²	PVC, black	
12275	VCD 1A-1-3-212/5 M	2 + 2 PE	5 M	3 x 0.5 mm ²	PVC, black	
43445	VCD 1A-1-3-212/10 M	2 + 2 PE	10 M	3 x 0.5 mm ²	PVC, black	
12276	VCD 1A-1-3-226/2 M	2 + 2 PE	2 M	3 x 0.5 mm ²	PUR, halogen-free, black	
12277	VCD 1A-1-3-226/5 M	2 + 2 PE	5 M	3 x 0.5 mm ²	PUR, halogen-free, black	
43911	VCD 1A-1-3-226/10 M	2 + 2 PE	10 M	3 x 0.5 mm ²	PUR, halogen-free, black	
12279	VCD 1A-1-3-241/2 M	2 + 2 PE	2 M	3 x 0.5 mm ²	PUR, halogen-free, orange	
12280	VCD 1A-1-3-241/5 M	2 + 2 PE	5 M	3 x 0.5 mm ²	PUR, halogen-free, orange	
11096	VCD 1A-1-3-241/10 M	2 + 2 PE	10 M	3 x 0.5 mm ²	PUR, halogen-free, orange	
12263	VC 1A-1-3-212/2 M	2 + 2 PE	2 M	3 x 0.5 mm ²	PVC, black	
12264	VC 1A-1-3-212/5 M	2 + 2 PE	5 M	3 x 0.5 mm ²	PVC, black	
46944	VC 1A-1-3-212/10 M	2 + 2 PE	10 M	3 x 0.5 mm ²	PVC, black	
43906	VC 1A-1-3-226/2 M	2 + 2 PE	2 M	3 x 0.5 mm ²	PUR, halogen-free, black	
43909	VC 1A-1-3-226/5 M	2 + 2 PE	5 M	3 x 0.5 mm ²	PUR, halogen-free, black	
43905	VC 1A-1-3-226/10 M	2 + 2 PE	10 M	3 x 0.5 mm ²	PUR, halogen-free, black	

Conversion table mm² to AWG on page 20.

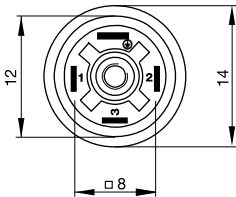
**GDM Series Rectangular Connectors, Type C as per Industrial Standard,
Surface Mounted Male Connectors, DIN Standard and Industrial Standard, without Circuit**

Technical Information

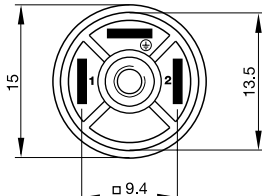
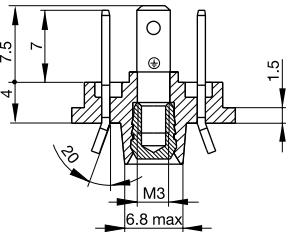
Product Description		
Order Designation	GSSNR x00	GSSR x00
		
Description	Male appliance connector with central screw, design for extrusion-coating or potting, standard DIN EN 175 301-803-C, closed nut	Male appliance connector with central screw, design for extrusion-coating or potting, industrial standard (9.4 mm), closed nut
RoHS-Compliant (2011/65/EU)	Yes	
(Construction Type) Standard	DIN EN 175 301-803	Industrial standard
Approvals	UR, VDE, SEV, CSA	
Technical Data		
No. of Pins	2 + PE, 3 + PE	
Ambient Temperature	-40 °C to +125 °C	
Housing/Grip/Screw Coupling	PA 66	
Contact Holder	PA 66	
Contact	CuZn, tin-plated	
Mechanical Data		
Degree of Protection	IP65 (gasket required, only when mated with Hirschmann/Lumberg counterparts)	
Terminal Type	Solder	
Electrical Data		
Contact Resistance	≤ 10 mΩ	
Operating Voltage	230 V AC/DC	
Rated Current	6 A	
Pollution Degree	3	
Accessories		
Scope of Delivery or Accessories (incl.)	Items supplied in one package: 200	
Accessories to be Ordered Separately	—	
Technical Drawing		



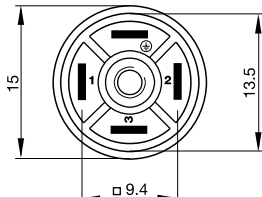
GSSNR 200



GSSNR 300



GSSR 200



GSSR 300

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type
933115100	GSSR 200	2 + PE	solder
933114100	GSSR 300	3 + PE	solder
933113100	GSSNR 200	2 + PE	solder
933112100	GSSNR 300	3 + PE	solder

The application of these products in harsh environments should always be checked before use.
Technical modifications reserved.