



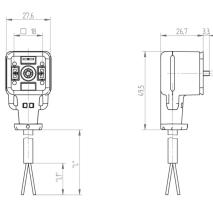
# Product: <u>GAN200U-D1U-606-4UD</u> ☑

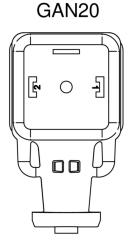
Form A - Female 90° | #Contacts: 2 | Recovery Diode (FRD) | 50 V | Cable: Grey (PUR); 0.75 mm<sup>2</sup>; IEC | cULus

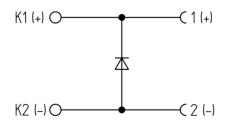
## **Product Description**

Form A - Singled-Ended Female Angled Cordset | #Contacts: 2 | Recovery Diode (FRD) | 50 V / 10 A | Cable: Grey PUR Jacket; 2x0.75 mm<sup>2</sup> (18 AWG); IEC | UL 2238; cULus

## **Technical Drawing**







## **Technical Specifications**

## Product Life Cycle

Life Cycle:	Active - Product is available
Availability:	New Release
Face View	
Pin 1Pin 2brownblue	
Technical Data	

Band         Histoman           Contector Type:         Codestangle ended           Contector Type:         Scat Contant / Fenale           Contector Design:         Apple GO's Body           Mander Offension:         Scat Contant / Fenale           Contector Design:         Apple GO's Body           Marchard Design:         Scat Contant / Fenale           Contector Type:         Scat Contant / Fenale           Marchard Design:         Scat Contant / Fenale           Scat Contant / Fenale         Scat Contant / Fenale           Scat Contant / Fenale         Scat Contant / Fenale           Contant / Fenale         Scat Contant / Fenale           Scat Contant / Fenale         Scat Contant / Fenale           Conta	Product Family:	Valve Connectors
Connector Type:         Condext, Gender.           Socka Contact / Female         Socka Contact / Female           Connector Design:         Angled (90') Body           Varuber or Design:         Angled (90') Body           Socka Contact / Gender.         Socka Contact / Female           Socka Contact / Gender.         Socka Contact / Gender.           Socka Contact / Gender.         Soc	Product Sub Family:	GAN - cULus 2238
Type of Contact / Female         Socket Contact / Female           Contact / Benale         Angled (80°) Body           Number of Pins:         2           Contact / Benale         2           Contact / Benale         A           Stanking:         Unshieled           Witchment Ypp:         Central Scow           Rated Voltage (VL):         Si V           Rated Voltage (VSA):         Si VACIOC           Rated Current (VL):         A           Rated Current (VL):         A           Rated Current (VL):         A           Socket Contact / Exercised Temperature - 40 °C + 105 °C with additional gasket accessory, Sid487001]           Socket Contact / Penale         Sic C + 55 °C [Extended Temperature - 40 °C + 105 °C with additional gasket accessory, Sid4887001]           Socket Contact / Penale         Sic C + 55 °C [Extended Temperature - 40 °C + 105 °C with additional gasket accessory, Sid4887001]           Socket Contact / Sic C + 55 °C [Extended T	Brand:	Hirschmann
Ander GelorityAnder Gelority BodySciencetor Design:Ander Gelority BodyStanked rol Prise:2Science of Prise:AScience of Prise:Central ScrewStatekting:Sol <tr< td=""><td>Connector Type:</td><td>Cordset, single ended</td></tr<>	Connector Type:	Cordset, single ended
Autober of Pine         Autober of Pine           Doding:         A           Solidig:         A           Shelding:         Unshielded           Stread Voltage:         Central Screw           Sated Voltage:         Sol V           Sated Voltage:         Sol V           Stread Voltage:         Sol V           Sated Voltage:         Sol V           Sated Voltage:         Sol VAC/DC           Stread Voltage:         Sol VAC/DC           Sated Current':         In A           Sated Current':         In A           Sated Current (SA):         Sol VAC/DC           Sated Current (SA):         Sol VAC/DC           Sated Current (SA):         Sol Mo           So	Type of Contact / Gender:	Socket Contact / Female
Coding:AAinelidadiUnsileidadiShieldadiCentral ScrewAtachment Type:Go VaAtach Voltage:So VaAtach Voltage (UL):So VaNation Resistance:So VaSo VaSo So VaSo NamiSo VaSo Va (UL):So VaSo Va (UL): <td< td=""><td>Connector Design:</td><td>Angled (90°) Body</td></td<>	Connector Design:	Angled (90°) Body
Shielding:         Unshielded           Attachment Type:         Central Screw           Rated Voltage:         50 V           Stack Voltage:         60 V           Stack Voltage:         60 V           Stack Current':         10 A           Stack Current (UL)*:         6           Stack Current (UL)*:         50 S           Stack Current (SA)*:         50 S           Stack Current (SA)*:         50 S           Stacharent (SA)*:         50 S      <	Number of Pins:	2
And Marken Type:         Central Screw           Central Screw         Solv           Rated Voltage:         Solv           Rated Voltage (CSA):         Solv           Rated Impulse Voltage:         AuKV           Solv AC/DC         SolvAC/DC           Rated Impulse Voltage:         SolvAC/DC           Rated Current (L):         SolvAC/DC           Rated Current (L):         SolvAC/DC           Rated Current (CSA):         SolvAC/DC           SolvAC/DC         SolvAC/DC           Contact Resistance:         SolvAC/DC           SolvAC/DC         SolvAC/DC           Contact Resistance:         SolvAC/DC           SolvAC/DC         SolvAC/DC           Contact Resistance:         SolvAC/DC           SolvAC/DC         SolvAC/DC           Conductor Cross Section:         SolvAC/DC           SolvAC/DC         SolvAC/DC           SolvAC/DC <td>Coding:</td> <td>A</td>	Coding:	A
Arted VoltageSo VRated Voltage (UL):So VRated Voltage (CSA):So VRated Inpulse Voltage:40 kVSo V AC/DCSo VAC/DCRated Current*:10 ARated Current*:6 AContact Resistance:s 10 nonSo VAC/DCSo VAC/DCContact Resistance:s 10 nonSo VAC/DCSo VAC/DCContact Resistance:s 10 nonSo VAC/DCSo VAC/DCContact Resistance:s 10 nonSo VAC/DCSo VAC/DCConductor Cross Section:s 50 conceptionerSo VAC/DCSo VAC/DCConductor Cross Section:s 55 °C 1 Extended Temperature - 40 °C + 105 °C with additional gasket accessory, 934887001]Operating Temperature (Operatione):s 55 °C 1 extended Temperature - 40 °C + 105 °C with additional gasket accessory, 934887001]Operating Temperature (DCF):max + 85 °CSo VACIDC Sectione Degree / IP Rating*:Pols (PG (PEG9K: without additional gasket; max + 80 °C)Design Standar:D INE N17501-803-A, ISO 4400Pollution Degree:S acc: to DIN EN 60664-1 (VDE 0110-1)Clearance / Creepage Distance:D INE N60664-1 (VDE 0110-1)	Shielding:	Unshielded
Arade Voltage (UL):S0 VAtaded Voltage (CSA):S0 VAtaded Voltage:S0 VAtade Impulse Voltage:S0 VACDCOperating Voltage:S0 VACDCAtade Current:IO AAtade Current:IO AAtade Current:S0 VACDCAtade Current:S0 VACDCContact Resistance:S10 mOhmInsulation Resistance:S10 mOhmVoltage Corrent:S0 CConductor Cross Section:S0 SOperating Temperature (Operation):-25 °C + 85 °C [Extended Temperature - 40 °C + + 105 °C with additional gasket accessory. 934887001]Operating Temperature (CSA):max + 85 °CPortating Temperature (CSA):F05. IP67 (IP69K: without additional gasket; max + 80 °C)Portation Degree:ID61. P10501-803-A, ISO 4400Pollution Degree:S0 c. to DIN EN 60664-1 (VDE 0110-1)Pollution Degree:S0 c. to DIN EN 60664-1 (VDE 0110-1)Charance / Creepage Distance:S0 EX 60000	Attachment Type:	Central Screw
Rated Voltage         So V           Rated Voltage:         So V           Rated Impulse Voltage:         Au KV           Operating Voltage:         So VAC/DC           Rated Current*:         IDA           Rated Current*:         IDA           Rated Current*:         GA           Rated Current (UL)*:         GA           Contact Resistance:         F0           So Voltage:         So Voltage:           So Voltage:         So Vac/DC           Conductor Cross Section:         So Vac/DC           Conductor Cross Section:         So So C           Contage Temperature (Operation)*:         So So C           So So C         So So C           Contage Temperature (Operation)*:         So So C           Contage Temperature (Operation)*:         So So C           So So C         So So C           Contage Temperature (Operation)*:         Image So C           Contage Temperature (Operation)*:         Image So C           Contage Temperatur	Rated Voltage:	50 V
Rated Impulse Voltage:4.0 kVOperating Voltage:50 V AC/DCRated Current*:10 ARated Current (UL)*:6 ARated Current (CSA)*:6 AContact Resistance:510 mOhmsoulation Resistance:10*9 OhmVoltage:50Conductor Cross Section:0.75 mm²Conductor Cross Section:0.75 m²Conductor Cross Section:0.75 m²Conductor Cross Section:0.75 m²Cross Section:0.75	Rated Voltage (UL):	50 V
Operating Voltage:         S0 V AC/DC           Rated Current (*)         10 A           Rated Current (U.)*:         6 A           Rated Current (CSA)*:         6 A           Contact Resistance:         5 10 mOhm           nsulation Resistance:         5 10 mOhm           Conductor Cross Section:         5 0           0.75 m <sup>m</sup> 25 °C - 1 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]           Operating Temperature (Operatur):         max + 85 °C           Protection Degree / IP Rating*:         IPOS (IPOS) * without additional gasket; max + 80 °C)           Protection Degree;         INEN 175301-803-A, ISO 4400           Pollution Degree;         3 acc. to INI EN 06664-1 (VDE 0110-1)           Clearance / Creepage Distance:         INI EN 06664-1 (2008/01); VDE 0110-1	Rated Voltage (CSA):	50 V
Rated Current*:         10 A           Rated Current (UL)*:         6 A           Rated Current (CSA)*:         6 A           Contact Resistance:         10 m0hm           Stated State Current (CSA)*:         5 0           Contact Resistance:         5 0           Conductor Cross Section:         0.75 mm <sup>3</sup> Contact Resistance:         25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]           Operating Temperature (UL):         max. + 85 °C           Protection Degree / IP Rating**:         P65, IP67 (IP69K: without additional gasket; max. +80 °C)           Design Standard:         DIN EN 175301-803-A, ISO 4400           Pollution Degree         Gac: to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         DIN EN 60664-1 (VDE 0110-1)	Rated Impulse Voltage:	4.0 kV
Rated Current (UL)*:         A           Rated Current (CSA)*:         6           Contact Resistance:         5           Contact Resistance:         10 <sup>o</sup> Ohm           Insulation Resistance:         50 <sup>o</sup> Ont           Conductor Cross Section:         0.75 mm <sup>2</sup> Conductor Cross Section:         0.75 mm <sup>2</sup> Ambient Temperature (Operation)*:         25°C - + 85°C [Extended Temperature - 40°C - + 105°C with additional gasket accessory, 934887001]           Operating Temperature (CSA):         max + 85°C           Protection Degree / IP Rating*:         165. IP67 (IP69K: without additional gasket; max + 80°C)           Protection Degree         INE N 175301-803-A, ISO 4400           Pollution Degree:         3 ac. to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         INE N 60664-1 (VDE 0110-1)	Operating Voltage:	50 V AC/DC
Rated Current (CSA)*:         6 A           Contact Resistance:         < 10 mOhm	Rated Current*:	10 A
Contact Resistance:         ≤ 10 mOhm           Insulation Resistance:         > 10^9 Ohm           Mating Cycles:         ≤ 50           Conductor Cross Section:         0.75 mm²           Ambient Temperature (Operation)*:         > 25°C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]           Operating Temperature (UL):         max + 85 °C           Protection Degree / IP Rating**:         IP65, IP67 (IP69K: without additional gasket; max. + 80 °C)           Protection Degree:         DIN EN 175301-803-A, ISO 4400           Pollution Degree:         Din EN 106664-1 (VDE 0110-1)           Description Compared Protection Protection Degree Distance:         DIN EN 06664-1 (VDE 0110-1)	Rated Current (UL)*:	6 A
nsulation Resistance:         > 10^9 Ohm           Mating Cycles:         ≤ 50           Conductor Cross Section:         0.75 mm <sup>2</sup> Ambient Temperature (Operation)*:         > 25 °C + 85 °C [Extended Temperature - 40 °C + + 105 °C with additional gasket accessory, 934887001]           Operating Temperature (UL):         max + 85 °C           Operating Temperature (SA):         max + 85 °C           Protection Degree / IP Rating**:         P65, IP67 (IP69K: without additional gasket; max + 80 °C)           Protection Degree:         Dix N 175301-803-A, ISO 4400           Pollution Degree:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         Dix N 10664-1 (2008/DI; VDE 0110-1)	Rated Current (CSA)*:	6 A
Adding Cycles:         Solution           value of Cycles Section:         0.75 mm <sup>2</sup> Conductor Cross Section:         0.25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]           Operating Temperature (UL):         max. + 85 °C           Operating Temperature (CSA):         max. + 85 °C           Protection Degree / IP Rating**:         IP65, IP67 (IP69K: without additional gasket; max. + 80 °C)           Protection Degree:         DIN EN 175301-803-A, ISO 4400           Pollution Degree:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         DIN EN 06664-1 (2008/01); VDE 0110-1 <td>Contact Resistance:</td> <td>≤ 10 mOhm</td>	Contact Resistance:	≤ 10 mOhm
Conductor Cross Section:       0.75 mm <sup>2</sup> Ambient Temperature (Operation)*:       -25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]         Operating Temperature (UL):       max. + 85 °C         Operating Temperature (CSA):       max. + 85 °C         Protection Degree / IP Rating**:       IP65, IP67 (IP69K: without additional gasket; max. + 80 °C)         Design Standard:       DIN EN 175301-803-A, ISO 4400         Pollution Degree:       3 acc. to DIN EN 60664-1 (VDE 0110-1)         Clearance / Creepage Distance:       DIN EN 60664-1 (VDE 0110-1)	Insulation Resistance:	> 10^9 Ohm
Ambient Temperature (Operation)*:       -25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]         Operating Temperature (UL):       max. + 85 °C         Operating Temperature (CSA):       max. + 85 °C         Protection Degree / IP Rating**:       IP65, IP67 (IP69K: without additional gasket; max. + 80 °C)         Design Standard:       DIN EN 175301-803-A, ISO 4400         Pollution Degree:       3 acc. to DIN EN 60664-1 (VDE 0110-1)         Clearance / Creepage Distance:       DIN EN 60664-1 (2008/01); VDE 0110-1	Mating Cycles:	≤ 50
Operating Temperature (UL):       max. + 85 °C         Operating Temperature (CSA):       max. + 85 °C         Protection Degree / IP Rating**:       IP65, IP67 (IP69K: without additional gasket; max. +80 °C)         Design Standard:       DIN EN 175301-803-A, ISO 4400         Pollution Degree:       3 acc. to DIN EN 60664-1 (VDE 0110-1)         Clearance / Creepage Distance:       DIN EN 60664-1 (2008/01); VDE 0110-1	Conductor Cross Section:	0.75 mm <sup>2</sup>
Deparating Temperature (CSA):     max. + 85 °C       Protection Degree / IP Rating**:     IP65, IP67 (IP69K: without additional gasket; max. +80 °C)       Design Standard:     DIN EN 175301-803-A, ISO 4400       Pollution Degree:     3 acc. to DIN EN 60664-1 (VDE 0110-1)       Clearance / Creepage Distance:     DIN EN 60664-1 (2008/01); VDE 0110-1	Ambient Temperature (Operation)*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]
Protection Degree / IP Rating**:       IP65, IP67 (IP69K: without additional gasket; max. +80 °C)         Design Standard:       DIN EN 175301-803-A, ISO 4400         Pollution Degree:       3 acc. to DIN EN 60664-1 (VDE 0110-1)         Clearance / Creepage Distance:       DIN EN 60664-1 (2008/01); VDE 0110-1	Operating Temperature (UL):	max. + 85 °C
Design Standard:         DIN EN 175301-803-A, ISO 4400           Pollution Degree:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         DIN EN 60664-1 (2008/01); VDE 0110-1	Operating Temperature (CSA):	max. + 85 °C
Pollution Degree:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Clearance / Creepage Distance:         DIN EN 60664-1 (2008/01); VDE 0110-1	Protection Degree / IP Rating**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)
Clearance / Creepage Distance: DIN EN 60664-1 (2008/01); VDE 0110-1	Design Standard:	DIN EN 175301-803-A, ISO 4400
	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1)	Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

### **Materials**

Contact Base Material:	Brass (CuZn)
Contact Plating:	Copper over Tin (Cu/Sn)
Contact Bearer Material:	Glass-filled Polyamides (PA GF)
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Stainless Steel, Philips combi slot
Gasket Material:	Molded Integrated Gasket

## **Protection Circuitry**

Protective Circu	uit:

### **Additional Technical Data**

Recovery Diode (FRD)

Fastening Torque (Attachment):	(50-60) Ncm
Accessories to Order Separately:	934887001 - GAN EPDM gasket and holding clip

### **Cable Data**

Cable Number:	606
Conductor Size:	0.75 mm <sup>2</sup>
Number of Wires:	2
Minimal Bending Radius (Fixed Inst):	>4xD
Minimal Bending Radius (Flexible Inst):	>7.5 x D
Cycles (Bending):	> 5 mio

Conductor material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Grey
Cable Diameter D:	Ø 5.5 mm [ 0.217 " ]
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.92 mm [ 0.08 " ]
Ambient Temperature (Fixed Installation):	- 40 °C to + 90 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 20 °C to + 90 °C (UL: + 80 °C)
UL Cable Type:	AWM: 21198
Flammability Class (Cable Jacket):	IEC 60332-1, DIN VDE 0472 Teil 804 test method B; UL/CSA FT2
Cable Characteristics:	resistant against solvents, acids and alkalis, resistant against UV and ozone

### **Approvals**

UL-File:	E315587
UL:	UL 2238; cULus
VDE:	Yes

### Safety & Environmental Compliance

RoHS Compliant:	Yes
Resistances	

Halogenfree:	Yes
Oil Resistance:	VDE 0250 and 0472

### **Notes**

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	IP Rating tested according to IEC standard using combination of a Hirschmann or Lumberg Automation connector mounted and locked
Note:	1. Do not connect or disconnect under load. 2. Extended temperature range of -40°C performed by Belden in mated condition using EPDM gasket accessory.

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