



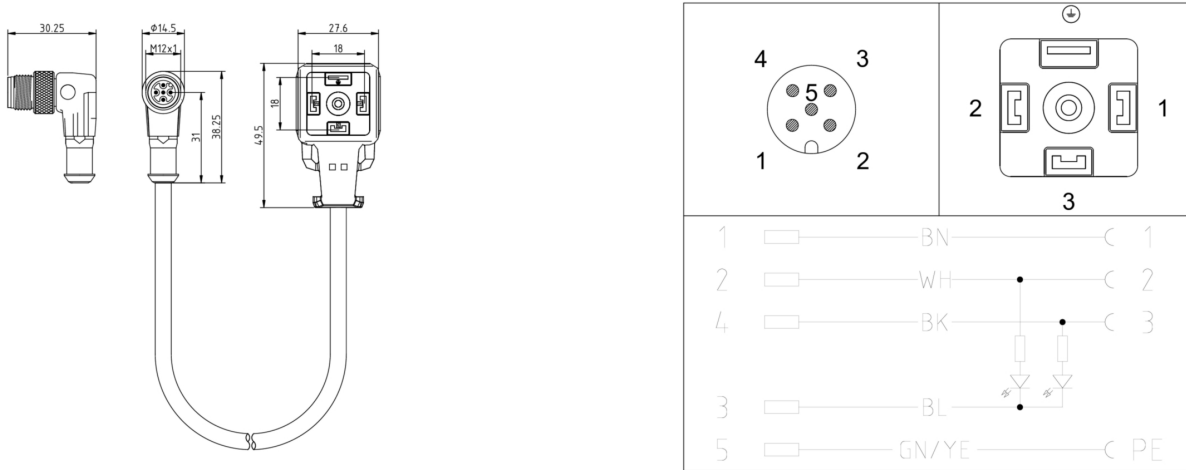
**Product:** [RSWT 5-GAN31LU-P1J-228](#)

M12-Form A | M12- Male 90° | #Contacts: 5 | Form A - Female 90° | #Contacts: 3+ PE | Dual Pressure Switch RD/GN LED | 24 V | Cable: Black (PUR); 0.50 mm<sup>2</sup>; IEC | cURus

**Product Description**

M12 - Form A, Double-Ended Cordset | M12- Male Angled | #Contacts: 5, A-coded | Form A - Female Angled Cordset | #Contacts: 3+PE | Dual Pressure Switch Red/Green LED | 24 V / 4 A | Cable: Black PUR Jacket; 5x0.50 mm<sup>2</sup> (20 AWG); IEC | UL 2238; cURus

**Technical Drawing**



**Technical Specifications**

**Face View Side 1**

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	green/yellow

**Face View Side 2**

Pin 1	Pin 2	Pin 3	PE
brown	white	black	green/yellow

**Product Description**

Brand:	Hirschmann
Connector Type:	Cordset, double ended
Shielding Type:	Unshielded
Voltage Rating:	24 V
Rated Impulse Voltage:	4.0 kV (PCBA 2.0 kV)
Operating Voltage:	24 V AC/DC
Current Rating:	4 A

**Technical Data Side 1**

Side 1 Product Sub Family:	M12 Standard
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Side 1 Type of Contact/Gender:	Pin Contact / Male
Connector Design:	Molded   M12 Male   Angled
Attachment Type:	Coupling Screw
Number of Pins:	5
Coding, Side 1:	A
Side 1 Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Cross Section:	0.50 mm <sup>2</sup>
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Side 1 Design Standard:	IEC 61076-2-101
Side 1 Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material:	Copper Alloy (CuSn)
Side 1 Contact Plating:	Gold over Copper (Cu/Au)
Contact Bearer Material:	Thermoplastic Polyurethane (TPU)
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	Thermoplastic Polyurethane (TPU)
Molded Body Color:	Grey Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Copper Alloy (CuZn)
Attachment Plating:	Nickel (Ni)
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	1. Do not connect or disconnect under load.

## Cable Data

Cable Number:	228
Conductor Size:	0.5 mm <sup>2</sup>
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 mio
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Conductor Material:	Cu
Cable Jacket Material:	Polyurethane (PUR)
Cable Jacket Color:	Black
Cable Diameter D:	Ø 5.4 mm   0.213"
Wire Insulation Material:	Polypropylene (PP)
Insulated Wire Diameter:	Ø 1.50 mm   0.06"
Ambient Temperature (Fixed Installation):	- 50 °C to + 105 °C (UL: + 80 °C)
Ambient Temperature (Flex Installation):	- 25 °C to + 105 °C (UL: + 80 °C)
Ambient Temperature (Drag Chain Inst):	- 25 °C to + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 50265-2-2, VDE 0482-265-2-2, IEC 60332-2-2, CSA FT2
Cable Characteristics:	Flexibility: Excellent   Abrasion Resistance: Excellent   Oil & Chemical Resistance: Excellent   UV Resistance: Good to excellent   Low Temp Performance: Excellent (flexible to -40°C)   Flame Retardance: Varies   Halogen-Free: Yes   Mechanical Durability: High (resists impact, tear, and flex)   Environmental Suitability: Outdoor, oily, wet, or rough environments

## Technical Data Side 2

Side 2 Product Sub Family:	GAN - cURus 2238
Side 2 Type of Contact/Gender:	Socket Contact / Female
Connector Design, Side 2:	Molded   Form A   Angled
Attachment Type, Side 2:	Center Screw
Number of Pins, Side 2:	3+PE (PE Opposite of cable exit)
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 50
Ambient Temperature (Operation), Side 2*:	- 25 °C - + 85 °C [Extended Temperature - 40 °C - + 105 °C with additional gasket accessory, 934887001]
Protection Degree / IP Rating, Side 2**:	IP65, IP67 (IP69K: without additional gasket; max. +80 °C)
Design Standard, Side 2:	DIN EN 175301-803-A, ISO 4400
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance, Side 2:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	Copper Alloy (CuZn)
Contact Plating, Side 2:	Copper over Tin (Cu/Sn)
Contact Bearer Material, Side 2:	Glass-filled Polyamides (PA GF)
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	Thermoplastic Polyurethane (TPU)
Molded Body Color, Side 2:	Grey Translucent
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	Steel, Philips combi slot
Gasket Material, Side 2:	Molded Integrated Gasket
Protection Circuitry, Side 2:	Dual Pressure Switch Functionality (red & green LED)
Function Indicator, Side 2:	Dual red-green LEDs (pressure switch)
Protective Circuit, Side 2:	Pressure Switch Functionality
Fastening Torque (Attachment), Side 2:	Form A: (50-60) Ncm, hand-tight
Accessories to Order Separately, Side 2:	934887001 - GAN EPDM gasket and holding clip
Note, Side 2:	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.

## Approvals

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

## Safety & Environmental Compliance

RoHS Compliant:	Yes
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## Resistances

Halogenfree:	Yes
Oil Resistance:	Good chemical and oil resistance

## Notes

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 Derating:	Notice derating
Update and Revision:	Revision Number: 0.22 Revision Date: 05-04-2026

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