HIRSCHMANN
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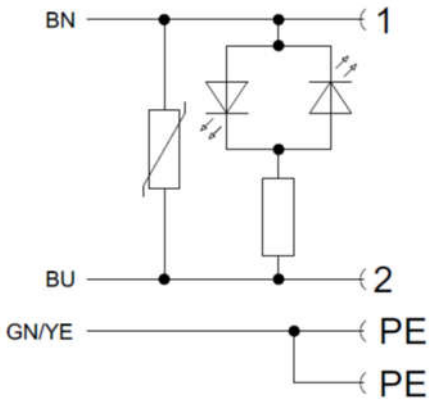
## Product: VAD 1A-1-3-226

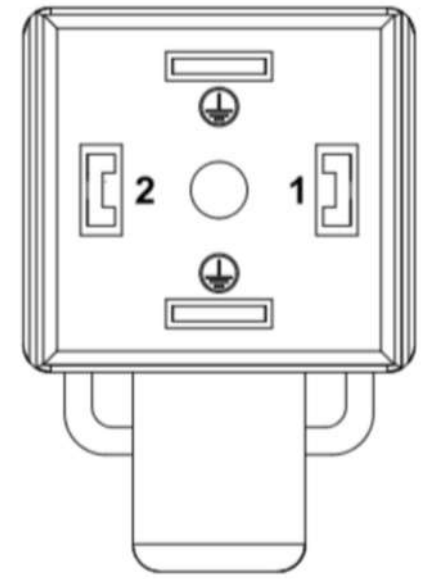
VAD - DIN Standard Single-Ended Cordset: Form A, 3-pin (2+2PE), grey translucent body, with Varistor and Yellow LED, 24 V , 4 A; PUR black cable

**Product Description**

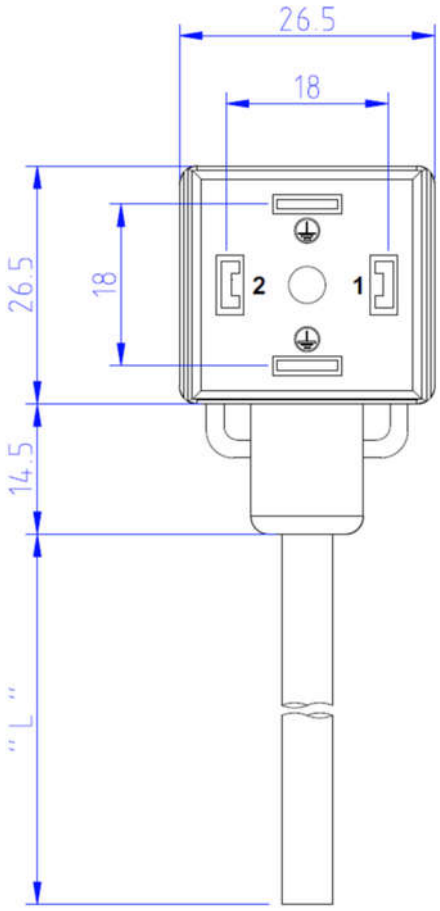
VAD - 175301-803 (DIN 43650), Form A, Female, Angled, 18mm, Grey translucent body, 2+2Ground (Protective Earth), with Varistor and Yellow LED, 24 V AC/DC, 4 A; PUR black cable, 3-wires, 0.50 mm²

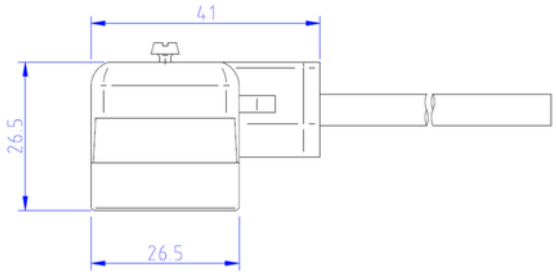
**Technical Drawing**




1 = BN
2 = BU
PE = GN/YE




## Technical Specifications

### Technical Data

| | |
|---|---|
| Product Family: | Valve Connectors |
| Product Sub Family: | VAD |
| Brand: | Lumberg Automation |
| Connector Type: | Cordset, single ended |
| Type of Contact / Gender: | Female |
| Connector Design: | Angled |
| Number of Pins: | 2+2PE |
| Coding: | A |
| Shielding: | Unshielded |
| Attachment Type: | Central Screw |
| Rated Voltage: | 24 V AC/DC |
| Rated Impulse Voltage: | 4.0 kV |
| Operating Voltage: | 24 V AC/DC |
| Rated Current*: | 4 A |
| Contact Resistance: | ≤ 5 mOhm |
| Insulation Resistance: | > 10^9 Ohm |
| Mating Cycles: | max. 50 |
| Ambient Temperature (Operation)*: | -25°C to +80°C |
| Protection Degree / IP Rating**: | IP65, IP67 |
| Design Standard: | DIN EN 175301-803-A |
| 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) |

### Materials

| | |
|---|---|
| Contact Base Material: | CuZn |

| | |
|---|---|
| Contact Plating: | Cu/Ni,Sn |
| Contact Bearer Material: | PBT |
| Contact Bearer Color: | Black |
| Flammability Class (Contact Bearer): | UL 94 V-0 |
| Molded Body Material: | TPU |
| Molded Body Color: | Transluscent |
| Flammability Class (Molded Body): | UL 94 HB |
| Attachment Material: | Steel, Philips combi slot |
| Gasket Material: | Molded Integrated Gasket |

## Protection Circuitry

| | |
|---|---|
| Function Indicator: | Yellow LED |
| Protective Circuit: | Varistor |

## Additional Technical Data

| | |
|---|---|
| Fastening Torque (Attachment): | (50-60) Ncm |

## Cable Data

| | |
|---|---|
| Cable Number: | 226 |
| Conductor Size: | 0.5 mm² |
| Number of Wires: | 3 |
| Minimal Bending Radius (Fixed Inst): | > 5 x D |
| Minimal Bending Radius (Flexible Inst): | > 10 x D |
| Cycles (Bending): | > 5 M |
| Cycles (Torsion): | > 5 M @ ± 360 °/1 m |
| Conductor material: | Cu |
| Cable Jacket Material: | PUR |
| Cable Jacket Color: | black |
| Cable Diameter D: | ø 4.6 ± 0.2 mm |
| Wire Insulation Material: | PP |
| Insulated Wire Diameter: | ø 1.50 mm |
| Ambient Temperature (Fixed Installation): | - 50 °C - + 105 °C (UL: + 80 °C) |
| Ambient Temperature (Flex Installation): | - 25 °C - + 105 °C (UL: + 80 °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: | Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility; Free of lacquer wetting disturbing substances |

## Safety & Environmental Compliance

| | |
|---|---|
| RoHS Compliant: | yes |

## Resistances

| | |
|---|---|
| Halogenfree: | no |
| Oil Resistance: | Good chemical and oil resistance |

## Notes

| | |
|---|---|
| Note Derating: | Notice derating |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |

**Variants**

| Item # | Item Description | Cable Length | Replaced By |
|---|---|---|---|
| 2356 | VAD 1A-1-3-226/1,5 M | 1.5 m | Name: GAN22LU-V24-2260150-1UD |
| 12135 | VAD 1A-1-3-226/10 M | 10 m | ID: 934889051 Name: GAN22LU-V24-2261000-1UB |
| 12136 | VAD 1A-1-3-226/2 M | 2 m | ID: 934889048 Name: GAN22LU-V24-2260200-1UC |
| 12137 | VAD 1A-1-3-226/3 M | 3 m | ID: 934889049 Name: GAN22LU-V24-2260300-1UC |
| 12138 | VAD 1A-1-3-226/5 M | 5 m | ID: 934889050 Name: GAN22LU-V24-2260500-1UC |
| 16038 | VAD 1A-1-3-226/15 M | 15 m | ID: 934889052 Name: GAN22LU-V24-2261500-1UB |
| 43836 | VAD 1A-1-3-226/1 M | 1 m | Name: GAN22LU-V24-2260100-1UD |
| 45538 | VAD 1A-1-3-226/20 M | 20 m | ID: 934889053 Name: GAN22LU-V24-2262000-1UA |

| | | | |
|---|---|---|---|
| 49867 | VAD 1A-1-3-226/0,6 M | 0.6 m | ID: 934889047 Name: GAN22LU-V24-2260060-1UD |
| 68205 | VAD 1A-1-3-226/25 M | 25 m | ID: 934889054 Name: GAN22LU-V24-2262500-1UA |
| 20451 | VAD 1A-1-3-226/0,68 M | 0.68 m | Name: GAN22LU-V24-2260068-1UD |
| 27843 | VAD 1A-1-3-226/7 M | 7 m | Name: GAN22LU-V24-2260700 |
| 884 | VAD 1A-1-3-226/30 M | 30 m | Name: GAN22LU-V24-2263000 |

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