

IMAGE  
COMING  
SOON

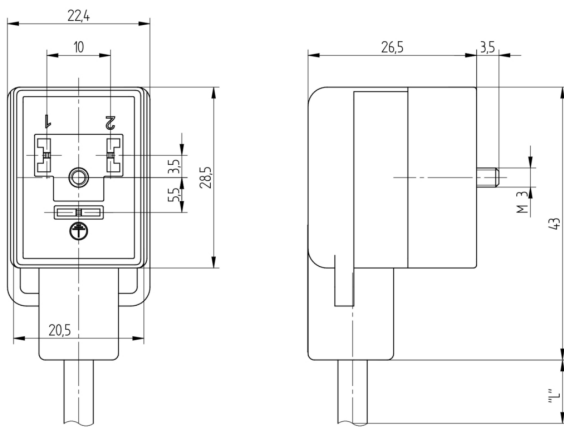
**Product:** [VBD 1A-1-1-226](#)

VBD DIN Standard Single-Ended Cordset: Form B, 3-pin (2+1PE; PE at cable outlet), translucent body, with varistor and yellow LED, 24 V AC/DC, 4 A; PUR black cable, 0.50 mm<sup>2</sup>

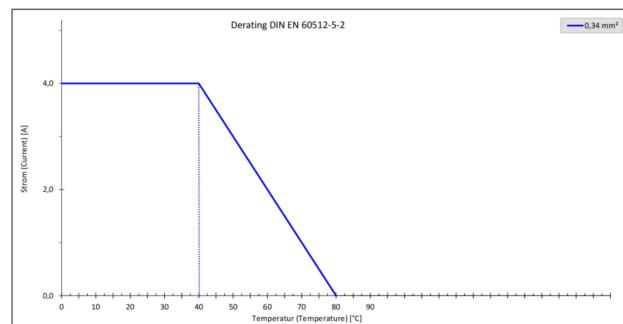
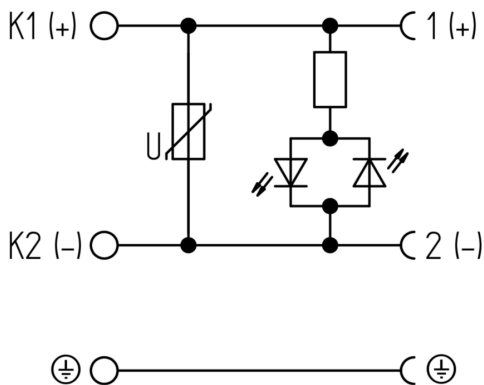
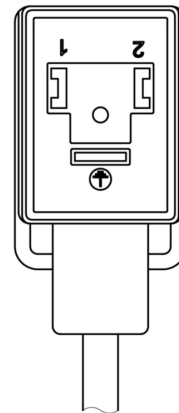
### Product Description

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### Technical Drawing



VBDZ



### Technical Specifications

#### Face View

| Pin 1 | Pin 2 | PE           |
|-------|-------|--------------|
| brown | blue  | green-yellow |

### Technical Data

|                 |                  |
|-----------------|------------------|
| Product Family: | Valve Connectors |
|-----------------|------------------|

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Product Sub Family:               | VBD DIN Standard                        |
| Brand:                            | Hirschmann                              |
| Connector Type:                   | Cordset, single ended                   |
| Type of Contact / Gender:         | Female                                  |
| Connector Design:                 | Angled                                  |
| Number of Pins:                   | 2+PE (PE at cable outlet)               |
| Coding:                           | B                                       |
| Shielding:                        | Unshielded                              |
| Attachment Type:                  | Central Screw                           |
| Rated Voltage:                    | 30 V AC/DC                              |
| Rated Impulse Voltage:            | 4.0 kV (PCBA 2.0 kV)                    |
| Operating Voltage:                | 24 V AC/DC                              |
| Rated Current*:                   | 4 A                                     |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10^9 Ohm                              |
| Mating Cycles:                    | ≤ 50                                    |
| Ambient Temperature (Operation)*: | -25 °C - +80 °C                         |
| Protection Degree / IP Rating**:  | IP65                                    |
| Design Standard:                  | DIN EN 175301-803-B, 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    |
| Overvoltage Category:             | III acc. to DIN EN 60664-1 (VDE 0110-1) |

Materials

|                                      |                           |
|--------------------------------------|---------------------------|
| Contact Base Material:               | CuZn                      |
| Contact Plating:                     | Cu/Sn                     |
| Contact Bearer Material:             | PA GF                     |
| Contact Bearer Color:                | black                     |
| Flammability Class (Contact Bearer): | UL 94 V-0                 |
| Molded Body Material:                | TPE                       |
| Molded Body Color:                   | Translucent               |
| Flammability Class (Molded Body):    | UL 94 HB                  |
| Attachment Material:                 | Steel, Philips combi slot |

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 ± 0.20 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) |

|                                        |                                                                                                                                                                                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Temperature (Drag Chain Inst): | - 25 °C - + 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:                 | 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:    | yes                              |
| 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. |
| Note:                               | Do not connect or disconnect under load.                                                     |

Variants

| Item # | Item Description    | Cable Length |
|--------|---------------------|--------------|
| 12226  | VBD 1A-1-1-226/2 M  | 2 m          |
| 12227  | VBD 1A-1-1-226/5 M  | 5 m          |
| 43894  | VBD 1A-1-1-226/1 M  | 1 m          |
| 43895  | VBD 1A-1-1-226/10 M | 10 m         |
| 43896  | VBD 1A-1-1-226/3 M  | 3 m          |

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