

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector rear mounting, 4-position, Socket, M12, coding: D, on free cable end, Rear wall/screw mounting, M16 x 1.5, Bus line, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239045

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1413925 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Product key | ABQDGI |
| GTIN | 4055626012544 |
| Weight per piece (including packing) | 42.9 g |
| Weight per piece (excluding packing) | 42.9 g |
| Country of origin | DE |

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

Technical data

Notes

Safety note

Safety note

WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.

- WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.

- WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.

- The products are suitable for applications in plant, controller, and electrical device engineering.

- When operating the connectors in outdoor applications, they must be separately protected against environmental influences.

- Assembled products may not be manipulated or improperly opened.

- Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at [phoenixcontact.com/products](https://www.phoenixcontact.com/products)).

- When using the product in direct connection with third-party manufacturers, the user is responsible.

- For operating voltages > 50 V AC, conductive connector housings must be grounded

- Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.

- Observe the corresponding technical data. You will find information:
 - o On the product
 - o On the packing label
 - o In the supplied documentation
 - o Online at [phoenixcontact.com/products](https://www.phoenixcontact.com/products) under the product

- Only use tools recommended by Phoenix Contact

- Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at [phoenixcontact.com/products](https://www.phoenixcontact.com/products)

- Ensure that the protective or functional ground has been properly connected.

- VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector

- The connector warms up in normal operation. Depending on the

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

| | |
|---------------|------------------------------------|
| Mounting type | Rear wall/screw mounting M16 x 1.5 |
|---------------|------------------------------------|

Product properties

| | |
|---------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Application | Data |
| Number of positions | 4 |
| Coding | D |
| Thread type | M12 |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Electrical properties

| | |
|-----------------------|-----------|
| Rated surge voltage | 2.5 kV AC |
| Nominal voltage U_N | 250 V |
| Nominal current I_N | 4 A |
| Transmission medium | Copper |

Connection data

Conductor connection

| | |
|-------------------------|----------|
| Connection method | Bus line |
| Contact connection type | Socket |
| Conductor cross section | 0.34 |

Connector

Connection 1

| | |
|------------------|--------|
| Head design | Socket |
| Head thread type | M12 |
| Coding | D |

Connection 2

| | |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

Cable/line


| | |
|--------------|------|
| Cable length | 0.33 |
|--------------|------|

PROFINET PVC stranded CAT5 [93B]

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting

1413925

<https://www.phoenixcontact.com/us/products/1413925>

| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 67 kg/km |
| UL AWM Style | 21694 |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| Conductor structure | 1x4xAWG22/7, SF/TQ |
| Signal runtime | 5.3 ns/m |
| Signal speed | 0.66 c |
| Conductor structure signal line | 7x 0.25 mm |
| AWG signal line | 22 |
| Conductor cross section | 4x 0.34 mm² |
| Wire diameter incl. insulation | 1.55 mm |
| External cable diameter | 6.50 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | green RAL 6018 |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PE |
| Single wire, color | white, yellow, blue, orange |
| Thickness, outer sheath | approx. 0.90 mm |
| Overall twist | Star quad |
| Optical shield covering | 85 % |
| Insulation resistance | ≥ 500 MΩ*km |
| Coupling resistance | ≤ 20.00 mΩ/m (at 10 MHz) |
| Loop resistance | ≤ 120.00 Ω/km |
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000.00 V (50 Hz, 1 min.) |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Smallest bending radius, fixed installation | 20 mm |
| Smallest bending radius, movable installation | 46 mm |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) 76 dB (at 4 MHz) |

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

| | |
|------------------------------------|---|
| | 70 dB (at 10 MHz) |
| | 65 dB (at 16 MHz) |
| | 63 dB (at 20 MHz) |
| | 60 dB (at 31.25 MHz) |
| | 55 dB (at 62.5 MHz) |
| | 50 dB (at 100 MHz) |
| Shield attenuation | 2.1 dB (with 1 MHz) |
| | 4 dB (at 4 MHz) |
| | 6.3 dB (at 10 MHz) |
| | 8 dB (at 16 MHz) |
| | 9 dB (at 20 MHz) |
| | 11.4 dB (at 31.25 MHz) |
| | 16.5 dB (at 62.5 MHz) |
| | 21.3 dB (at 100 MHz) |
| Flame resistance | according to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant (according to UL 1581, Section 1200) |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|--------------------------|
| Degree of protection | IP67 (When plugged in) |
| | IP65 (When plugged in) |
| Ambient temperature (operation) | -25 ... -85 |
| UL Type Rating | Type 4 (indoor use only) |

Standards and regulations

| | |
|--------------------------|------------------------------|
| Standards/specifications | according to IEC 61076-2-101 |
|--------------------------|------------------------------|

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting

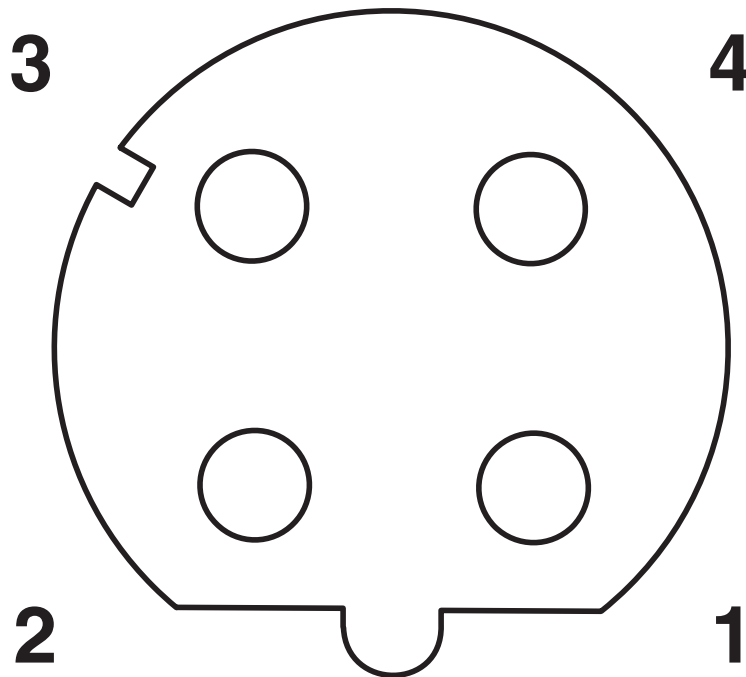


1413925

<https://www.phoenixcontact.com/us/products/1413925>

Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
|-------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

VS-DSIV-M12FSD-933-B/0,33 - Device connector rear mounting



1413925

<https://www.phoenixcontact.com/us/products/1413925>

Environmental product compliance

EU RoHS

| | |
|---|------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c) |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | 9afe860c-8f86-456c-a784-f3f63898a0c7 |

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com