# VIP-…/SC/FLK…

**VARIOFACE Professional for ribbon cable connectors**

**INTERFACE**

Data Sheet
2519_en_C

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## 1    Description

Incorporating a contemporary industrial design, VARIOFACE Professional (VIP) offers a next-generation approach to passive, 1:1 wiring for applications that require fast, fault-free connection of field devices, such as process and motion controllers. By utilizing ribbon cable connection to the controller and screw-cage termination to field devices, the end-user saves valuable time in installing and troubleshooting a system. VARIOFACE Professional is available in two- and three-level field I/O configurations and accommodates 10-, 14-, 16-, 20-, 26-, 34-, 40-, 50-, 60-, and 64-position ribbon cable connectors.

To aid in device identification in the switch cabinet, VARIOFACE Professional integrates a channel that can utilize the full range of ZB holders to provide flexible module marking options. VARIOFACE Professional also offers easy access to field I/O marking by providing signal marking on the screw connection surface. The module's single, rugged metal mounting foot moves along the length of the module, facilitating ease of installation and disconnection and the added benefit of positioning the module for efficient wiring.

## 2    Features

– Compact design reduces space requirements in the control cabinet
– I/O marking for field wiring clearly identified when device is mounted
– Integrated ZB channel allows flexible marking of device
– A single, metal mounting foot allows easy installation and removal to the mounting rail
– Movable mounting foot allows flexible module positioning during wire installation

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**i**  Make sure you always use the latest documentation.
It can be downloaded at www.phoenixcontact.net/download.

**i**  This data sheet is valid for all products listed on the following page:

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**INSPIRING INNOVATIONS**

# 3 Ordering Data

**Products**

| Description | Type | Order No. | Pcs./Pkt |
|---|---|---|---|
| **VARIOFACE Professional**, ribbon cable connector, 10 position | VIP-2/SC/FLK10 | 2315010 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 14 position | VIP-2/SC/FLK14 | 2315023 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 16 position | VIP-2/SC/FLK16 | 2315036 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 20 position | VIP-2/SC/FLK20 | 2315049 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 26 position | VIP-3/SC/FLK26 | 2315052 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 34 position | VIP-3/SC/FLK34 | 2315065 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 40 position | VIP-3/SC/FLK40 | 2315078 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 50 position | VIP-3/SC/FLK50 | 2315081 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 60 position | VIP-3/SC/FLK60 | 2315094 | 1 |
| **VARIOFACE Professional**, ribbon cable connector, 64 position | VIP-3/SC/FLK64 | 2315104 | 1 |

# 4 Technical Data

**General Data**

| | |
|---|---|
| Ambient temperature range (operating) | -20 to 50°C |
| Ambient temperature range (storage/transport) | -20 to 70°C |
| Humidity, permissible | 95% non-condensing |
| Altitude, maximum | 2000 m |
| Intended use | Indoors |
| Pollution degree | 2 |
| Mounting | NS 35 (EN 50022), any orientation |
| Surge voltage category | II |

**Electrical Data**

| | |
|---|---|
| Operating voltage, $U_N$ (IEC) | 60 V AC/DC |
| Operating voltage, $U_N$ (CSA, UL) | 125 V AC/DC |
| Permissible current, maximum per pin | 1 A |

**Connection Data**

| | |
|---|---|
| Connection type | Screw |
| Stripping length | 8 mm |
| Distribution connection data (solid/stranded/AWG) | 0.2-4.0 mm²/0.2-2.5 mm²/24-12 AWG |
| Screw thread | M3 |
| Tightening torque | 0.5-0.6 Nm |

**Conformance/Approval**

| | |
|---|---|
| Air creepage distances | IEC 60664, DIN EN 50178, IEC 62103 |
| UL/$_C$UL | UL 508 (E238705) |
| CSA | 61010-01: 04 |

## Dimensions

| | Width | Depth | Height |
|---|---|---|---|
| VIP-2/SC/FLK10 | 34.7 | 56.0 | 65.5 |
| VIP-2/SC/FLK14 | 39.8 | 56.0 | 65.5 |
| VIP-2/SC/FLK16 | 45.0 | 56.0 | 65.5 |
| VIP-2/SC/FLK20 | 55.1 | 56.0 | 65.5 |
| VIP-3/SC/FLK26 | 57.4 | 62.0 | 69.0 |
| VIP-3/SC/FLK34 | 67.6 | 62.0 | 69.0 |
| VIP-3/SC/FLK40 | 77.8 | 62.0 | 69.0 |
| VIP-3/SC/FLK50 | 93.1 | 62.0 | 69.0 |
| VIP-3/SC/FLK60 | 108.4 | 62.0 | 69.0 |
| VIP-3/SC/FLK64 | 118.6 | 62.0 | 69.0 |
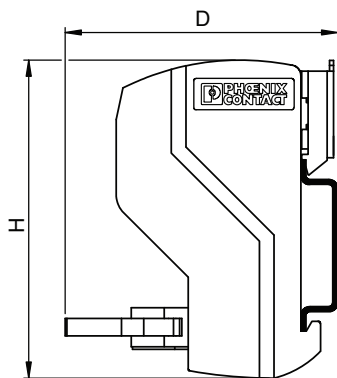
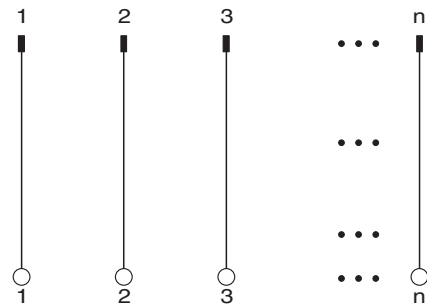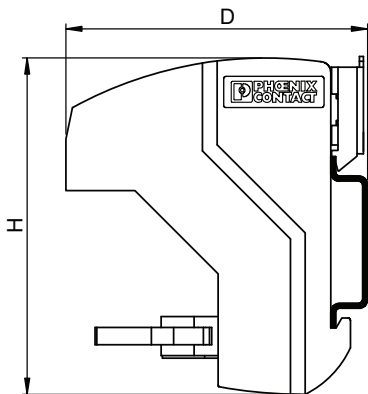Figure 1    VIP-2/SC/FLK… (2-level) dimensions

Figure 3    Circuit diagram

Figure 2    VIP-3/SC/FLK… (3-level) dimensions