

# VIP-PA-FLK14/ 0,5M/S7 - Front adapter



2322663

<https://www.phoenixcontact.com/pc/products/2322663>

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VIP VARIOFACE front adapter, with connected system cables for SMATIC S7-300, 2 x 8 channels can be connected

## Your advantages

- Power supply via terminal blocks with spring-cage double connection
- Can be screwed on with the I/O module
- Encapsulated socket strips on the module side

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2322663                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Product key                          | CK232S                         |
| Catalog page                         | Page 501 (C-5-2019)            |
| GTIN                                 | 4046356452496                  |
| Weight per piece (including packing) | 222.3 g                        |
| Weight per piece (excluding packing) | 211.3 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                |                        |
|----------------|------------------------|
| Product type   | Front adapter          |
| Product family | VARIOFACE Professional |

### Insulation characteristics

|            |                       |
|------------|-----------------------|
| Insulation | Functional insulation |
|------------|-----------------------|

### Insulation characteristics: Air clearances and creepage distances

|                      |                       |
|----------------------|-----------------------|
| Insulation           | Functional insulation |
| Overvoltage category | II                    |
| Pollution degree     | 2                     |

### Electrical properties

|                          |                       |
|--------------------------|-----------------------|
| Operating voltage (AC)   | $\leq 30$ V AC        |
| Operating voltage (DC)   | $\leq 60$ V DC        |
| Nominal operating mode   | 100% operating factor |
| Current (per branch)     | $\leq 1$ A            |
| Current (Voltage supply) | $\leq 8$ A            |
| Current (per byte)       | $\leq 2$ A            |

### Air clearances and creepage distances

|                          |        |
|--------------------------|--------|
| Rated insulation voltage | 63 V   |
| Rated surge voltage      | 0.6 kV |

### Supported controller SIEMENS S7-300 / ET 200 M

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7321-1BH50-0AA0 |
|                   | 6ES7321-7BH01-0AB0 |
|                   | 6ES7321-1BH02-0AA0 |
|                   | 6ES7321-1BH10-0AA0 |
|                   | 6ES7322-1BH01-0AA0 |
|                   | 6ES7322-8BF00-0AB0 |
|                   | 6ES7322-1BH10-0AA0 |
|                   | 6ES7323-1BH01-0AA0 |
|                   | 6ES7331-7HF01-0AB0 |
|                   | 6ES7331-7KF02-0AB0 |
|                   | 6ES7331-7KB02-0AB0 |
|                   | 6ES7331-7TF01-0AB0 |
|                   | 6ES7332-5HD01-0AB0 |
|                   | 6ES7332-5HB01-0AB0 |
|                   | 6ES7332-7ND02-0AB0 |
|                   | 6ES7332-8TF01-0AB0 |
|                   | 6ES7334-0CE01-0AA0 |
|                   | 6ES7334-0KE00-0AB0 |
|                   |                    |
|                   |                    |

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|  |                    |
|--|--------------------|
|  | 6ES7335-7HG01-0AB0 |
|  | 6ES7338-4BC01-0AB0 |
|  | 6ES7350-1AH03-0AE0 |
|  | 6ES7351-1AH01-0AE0 |
|  | 6ES7352-1AH02-0AE0 |
|  | 6ES7353-1AH01-0AE0 |
|  | 6ES7354-1AH01-0AE0 |
|  | 6ES7355-0VH10-0AE0 |
|  | 6ES7355-1VH10-0AE0 |

## Connection data

### Connection 1 (control level)

|                     |                                         |
|---------------------|-----------------------------------------|
| Connection method   | Plug-in connection                      |
| Number of positions | 20                                      |
| Note                | Can be plugged onto 20-pos. I/O modules |

### Connection 2 (field level)

|                                  |                      |
|----------------------------------|----------------------|
| Connection in acc. with standard | IEC 60603-13         |
| Connection method                | IDC/FLK socket strip |
| Number of connections            | 2                    |
| Number of positions              | 14                   |
| Insertion/withdrawal cycles      | < 50                 |
| Pitch                            | 2.54 mm              |

### Connection 3 (supply)

|                                                                         |                                                                               |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Connection method                                                       | Push-in spring connection                                                     |
| Stripping length                                                        | 10 mm                                                                         |
| Number of connections                                                   | 2                                                                             |
| Number of positions                                                     | 4                                                                             |
| Conductor cross section rigid                                           | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                   |
| Conductor cross section flexible                                        | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                   |
|                                                                         | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve) |
|                                                                         | 0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule with plastic sleeve)      |
| Conductor cross section flexible (2 conductors with same cross section) | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)  |
| Conductor cross section AWG                                             | 24 ... 12                                                                     |
| Pitch                                                                   | 5 mm                                                                          |

## Dimensions

### Cable

|        |       |
|--------|-------|
| Length | 0.5 m |
|--------|-------|

## Cable/line

14X0.14 [PVC]

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|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| UL AWM Style                                  | 2464/1061                                     |
| Number of positions                           | 14                                            |
| Shielded                                      | no                                            |
| Cable type                                    | 14X0.14 [PVC]                                 |
| Conductor type                                | Round cable set                               |
| Conductor structure signal line               | 7x 0.16 mm                                    |
| AWG signal line                               | 26                                            |
| Conductor cross section                       | 14x 0.14 mm <sup>2</sup>                      |
| Wire diameter incl. insulation                | 1 mm ±0.03 mm                                 |
| External cable diameter                       | 6.40 mm ±0.4 mm                               |
| Outer sheath, material                        | Semi-rigid PVC                                |
| External sheath, color                        | gray                                          |
| Conductor material                            | Tin-plated Cu litz wires                      |
| Cable resistance                              | ≤ 145 Ω/km (20 °C)                            |
| Insulation resistance                         | ≥ 20 MΩ*km (20 °C)                            |
| Smallest bending radius, fixed installation   | 55 mm                                         |
| Smallest bending radius, movable installation | 104 mm                                        |
| Max. bending cycles                           | 5000 (at a radius of ≥ 15x outside diameter)  |
| Halogen-free                                  | no                                            |
| Flame resistance                              | IEC 60332-1-2 (raw cable)                     |
|                                               | VDE 0842, Part 332-1-2 (raw cable)            |
|                                               | IEC 60332-3-22 (raw cable)                    |
|                                               | UL VW-1                                       |
|                                               | CSA FT-1                                      |
| Resistance to oil                             | can withstand occasional splashes (raw cable) |

## Environmental and real-life conditions

### Ambient conditions

|                                              |                  |
|----------------------------------------------|------------------|
| Degree of protection (Module)                | IP20             |
| Degree of protection (Installation location) | ≥ IP54           |
| Ambient temperature (operation)              | -20 °C ... 50 °C |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C |
| Altitude                                     | ≤ 2000 m         |

## Approvals

### UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Standards and regulations

### Air clearances and creepage distances

|                       |                |
|-----------------------|----------------|
| Standards/regulations | EN IEC 60664-1 |
|-----------------------|----------------|

## Mounting

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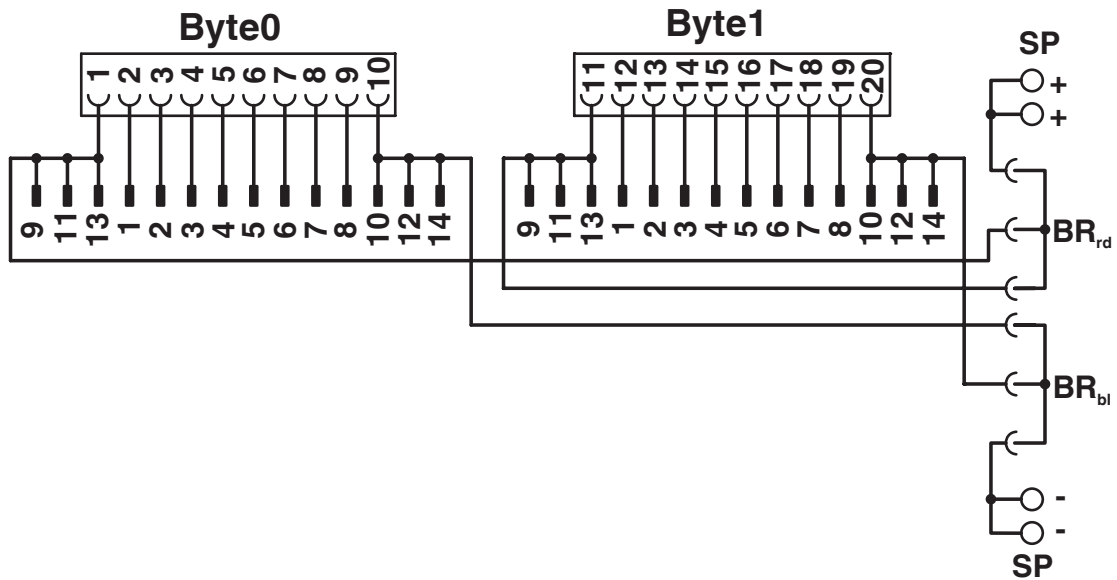
|                   |                  |
|-------------------|------------------|
| Mounting type     | Plug-in mounting |
| Mounting position | any              |

## Notes

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Notes on operation | <p>To prevent short circuits, all wire bridges on the following I/O cards are to be separated.</p> <p>There may not be any voltage supply at the front adapter.</p> <p>6ES7 321-1BH50-0AA0<br/>6ES7 321-7BH01-0AB0<br/>6ES7 322-8BF00-0AB0<br/>6ES7 331-7KF02-0AB0<br/>6ES7 331-7HF01-0AB0<br/>6ES7 331-7KB02-0AB0<br/>6ES7 331-7TF01-0AB0<br/>6ES7 332-5HD01-0AB0<br/>6ES7 332-5HB01-0AB0<br/>6ES7 332-7ND02-0AB0<br/>6ES7 334-0CE01-0AA0<br/>6ES7 334-0KE00-0AB0<br/>6ES7 335-7HG01-0AB0<br/>6ES7 338-4BC01-0AB0<br/>6ES7 350-1AH03-0AE0<br/>6ES7 351-1AH01-0AE0<br/>6ES7 352-1AH02-0AE0<br/>6ES7 353-1AH01-0AE0<br/>6ES7 354-1AH01-0AE0<br/>6ES7 355-0VH10-0AE0<br/>6ES7 355-1VH10-0AE0</p> |
| Notes on operation | <p><u>Digital I/O cards</u></p> <p>Thanks to the existing wire bridge upon delivery, the input and output bytes are non-isolated.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2322663>

|                                                                                                                                       |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 238705 |                       |                       |                   |                             |
|                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                       | 50 V                  | 1 A                   | -                 | -                           |

|                                                                                                                                      |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 238705 |                       |                       |                   |                             |
|                                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                      | 50 V                  | 1 A                   | -                 | -                           |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27242292 |
| ECLASS-12.0 | 27242292 |
| ECLASS-13.0 | 27242292 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002584 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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