

# VIP-PA-FLK50/ 2,0M/S7 - Front adapter



2321800

<https://www.phoenixcontact.com/pc/products/2321800>

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VIP VARIOFACE front adapter, with connected system cables for SMATIC S7-300, 1 x 32 channels can be connected

## Your advantages

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

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2321800             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | CK2317              |
| Catalog page                         | Page 500 (C-5-2019) |
| GTIN                                 | 4046356347600       |
| Weight per piece (including packing) | 574.4 g             |
| Weight per piece (excluding packing) | 574 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 |
| 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 | CPU 312C           |
|                   | CPU 313C           |
|                   | CPU 313C-2PtP      |
|                   | CPU 313C-2DP       |
|                   | CPU 314C-2PtP      |
|                   | CPU 314C-2DP       |
|                   | 6ES7321-1BL00-0AA0 |
|                   | 6ES7322-1BL00-0AA0 |
|                   | 6ES7322-8BH01-0AB0 |
|                   | 6ES7322-8BH10-0AB0 |
|                   | 6ES7323-1BL00-0AA0 |
|                   | 6ES7331-1KF01-0AB0 |
|                   | 6ES7331-7NF00-0AB0 |
|                   | 6ES7331-7NF10-0AB0 |
|                   | 6ES7331-7PF01-0AB0 |
|                   | 6ES7331-7PF11-0AB0 |
|                   | 6ES7332-5HF00-0AB0 |
|                   | 6ES7350-2AH01-0AE0 |
|                   | 6ES7357-4AH01-0AE0 |
|                   |                    |

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|  |                    |
|--|--------------------|
|  | 6ES7321-7TH00-0AB0 |
|  | 6ES7331-1KF02-0AB0 |

## Connection data

### Connection 1 (control level)

|                     |                                         |
|---------------------|-----------------------------------------|
| Connection method   | Plug-in connection                      |
| Number of positions | 40                                      |
| Note                | Can be plugged onto 40-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            | 1                    |
| Number of positions              | 50                   |
| 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> |
| Conductor cross section AWG      | 24 ... 14                                   |

## Dimensions

### Cable

|        |     |
|--------|-----|
| Length | 2 m |
|--------|-----|

## Cable/line

### 50X0.14 [PVC]

|                                 |                          |
|---------------------------------|--------------------------|
| UL AWM Style                    | 2464/1061                |
| Number of positions             | 50                       |
| Shielded                        | no                       |
| Cable type                      | 50X0.14 [PVC]            |
| Conductor type                  | Round cable set          |
| Conductor structure signal line | 7x 0.16 mm               |
| AWG signal line                 | 26                       |
| Conductor cross section         | 50x 0.14 mm <sup>2</sup> |
| Wire diameter incl. insulation  | 1 mm ±0.03 mm            |
| External cable diameter         | 10.30 mm ±0.4 mm         |
| Outer sheath, material          | Semi-rigid PVC           |
| External sheath, color          | gray                     |

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|                                               |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| Conductor material                            | Tin-plated Cu litz wires                                |
| Cable resistance                              | $\leq 145 \Omega/\text{km}$ (20 °C)                     |
| Insulation resistance                         | $\geq 20 \text{ M}\Omega \cdot \text{km}$ (20 °C)       |
| Smallest bending radius, fixed installation   | 86 mm                                                   |
| Smallest bending radius, movable installation | 161 mm                                                  |
| Max. bending cycles                           | 5000 (at a radius of $\geq 15 \times$ 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) | $\geq \text{IP54}$    |
| Ambient temperature (operation)              | -20 °C ... 50 °C      |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C      |
| Altitude                                     | $\leq 2000 \text{ m}$ |

## Approvals

### UKCA

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

## Standards and regulations

### Air clearances and creepage distances

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

## Mounting

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

## Notes

|         |                                                                                                                                                                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | 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. |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|         |                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | <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 331-1KF01-0AB0<br/>6ES7 331-1KF02-0AB0<br/>6ES7 331-7NF00-0AB0<br/>6ES7 331-7NF10-0AB0<br/>6ES7 331-7PF01-0AB0<br/>6ES7 331-7PF11-0AB0<br/>6ES7 332-5HF00-0AB0<br/>6ES7 350-2AH01-0AE0<br/>6ES7 357-4AH01-0AE0</p> |
| General | <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>                                                                                                                                                                                                                                                          |

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