

# VIP-PA-FLK14/ 1,5M/S7 - Front adapter



2322689

<https://www.phoenixcontact.com/us/products/2322689>

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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	2322689
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C423
Product key	DK232S
GTIN	4046356452489
Weight per piece (including packing)	334.5 g
Weight per piece (excluding packing)	334.5 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: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (per branch)	≤ 1 A
Current (Voltage supply)	≤ 8 A
Current (per byte)	≤ 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
	6ES7335-7HG01-0AB0
	6ES7338-4BC01-0AB0
6ES7350-1AH03-0AE0	

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	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	1.5 m
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### Cable/line

#### 14X0.14 [PVC]

UL AWM Style	2464/1061
Number of positions	14
Shielded	no

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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
Dynamic load capacity (bending)	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
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## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## Mounting

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          6ES7 321-7BH01-0AB0          6ES7 322-8BF00-0AB0          6ES7 331-7KF02-0AB0          6ES7 331-7HF01-0AB0          6ES7 331-7KB02-0AB0          6ES7 331-7TF01-0AB0          6ES7 332-5HD01-0AB0          6ES7 332-5HB01-0AB0          6ES7 332-7ND02-0AB0          6ES7 334-0CE01-0AA0          6ES7 334-0KE00-0AB0          6ES7 335-7HG01-0AB0          6ES7 338-4BC01-0AB0          6ES7 350-1AH03-0AE0          6ES7 351-1AH01-0AE0          6ES7 352-1AH02-0AE0          6ES7 353-1AH01-0AE0          6ES7 354-1AH01-0AE0          6ES7 355-0VH10-0AE0          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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## Classifications

### ECLASS

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
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### 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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