

# FLKM 14-PA/GE/DI - Front adapter

2290038

<https://www.phoenixcontact.com/us/products/2290038>



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VARIOFACE front adapter, for GE-FANUC series 90-30, 2 x 8 channels can be connected, digital input

## Your advantages

- Preassembled system cables are connected directly to I/O modules using the front adapters

## Commercial data

Item number	2290038
Packing unit	5 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK231G
Catalog page	Page 485 (C-5-2017)
GTIN	4017918057923
Weight per piece (including packing)	54.62 g
Weight per piece (excluding packing)	41.344 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Product properties

Product type	Front adapter
Product family	VARIOFACE

#### 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 via IDC/FLK)	≤ 3 A

#### Air clearances and creepage distances

Rated insulation voltage	63 V
Rated surge voltage	0.6 kV (1.2/50 µs)

#### Supported controller GE-FANUC 90-30

Suitable I/O card	IC693 MDL241
	IC693 MDL634
	IC693 MDL645
	IC693 MDL646

### Connection data

#### Connection 1 (control level)

Connection method	Plug-in connection
Number of positions	19

#### Connection 2 (field level)

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

#### Connection 3 (supply)

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3

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Number of connections	1
Number of positions	2
Conductor cross section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section rigid (2 conductors with same cross section)	0.08 mm² ... 0.5 mm²
Conductor cross section flexible	0.14 mm² ... 1.5 mm²
	0.25 mm² ... 1.5 mm² (Ferrule without plastic sleeve)
	0.25 mm² ... 0.75 mm² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.08 mm² ... 0.75 mm²
	0.25 mm² ... 0.34 mm² (Ferrule without plastic sleeve)
	0.5 mm² ... 0.5 mm² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	28 ... 16
Tightening torque	0.22 Nm ... 0.25 Nm
Pitch	3.81 mm

## 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

## 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.
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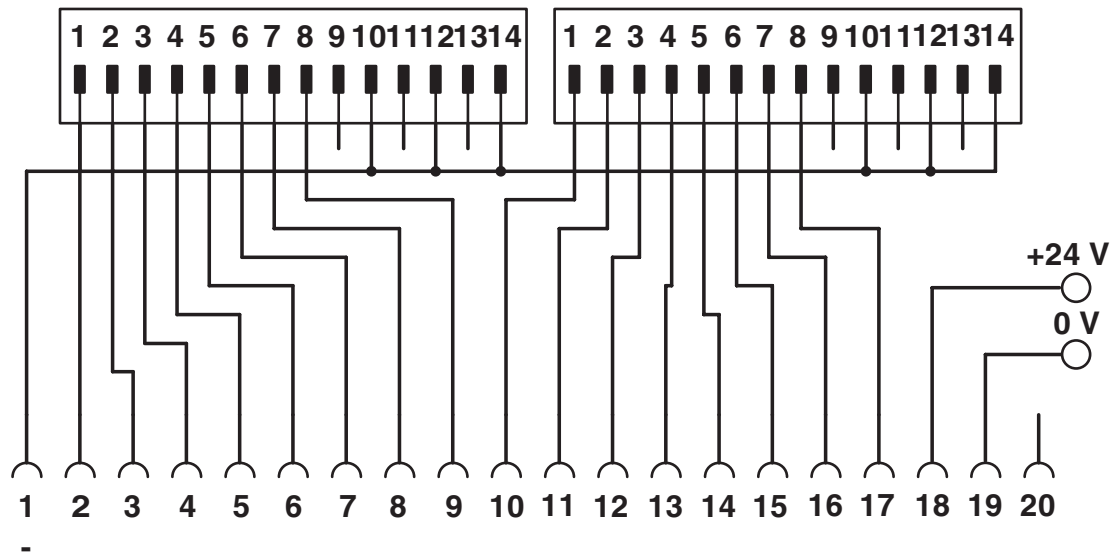
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## Drawings

Circuit diagram



Connection scheme FLKM 14-PA/GE/DI

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2290038>

 <b>UL Recognized</b> Approval ID: E238705	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	125 V	2 A	-	-

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002584
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### 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-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.)	No substance above 0.1 wt%
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