

FLKM 20-PA-ET200SP - Front adapter



1099751
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VARIOFACE front adapter for Siemens SIMATIC® ET200SP, with a 20-pos. FLK-/IDC male strip, max. 16 channels can be connected

Commercial data

Item number	1099751
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK231S
GTIN	4055626950181
Weight per piece (including packing)	28 g
Weight per piece (excluding packing)	28 g
Customs tariff number	85366990
Country of origin	DE

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Technical data

Product properties

Product type	Front adapter
Product family	VARIOFACE

Data management status

Article revision	04
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (DC)	≤ 60 V DC
Nominal operating mode	100% operating factor
Current (per branch)	≤ 1 A
Current (Voltage supply via IDC/FLK)	≤ 2 A
Current (Voltage supply via Push-in connection)	≤ 8 A

Air clearances and creepage distances

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

Supported controller SIEMENS ET 200SP

Suitable base unit	6ES7193-6BP00-0BA0
	6ES7193-6BP00-2BA0
	6ES7193-6BP00-0BA1
	6ES7193-6BP00-0DA0
	6ES7193-6BP00-2DA0
	6ES7193-6BP00-0DA1
Suitable I/O module	6ES7131-6BH01-0BA0 (Base Units A0/A1)
	6ES7131-6BH01-2BA0 (Base Units A0/A1)
	6ES7132-6BH01-0BA0 (Base Units A0/A1)
	6ES7132-6BH01-2BA0 (Base Units A0/A1)
	6ES7134-6GD01-0BA1 (Base Units A0/A1)
	6ES7134-6GD01-2BA1 (Base Units A0/A1)
	6ES7134-6HD01-0BA1 (Base Units A0/A1)
	6ES7134-6HD01-2BA1 (Base Units A0/A1)
	6ES7134-6TD00-0CA1 (Base Units A0/A1)
	6ES7134-6JD00-0CA1 (Base Units A0/A1)
	6ES7134-6JD00-2CA1 (Base Units A0/A1)
	6ES7134-6FF00-0AA1 (Base Units A0/A1)
	6ES7134-6GF00-0AA1 (Base Units A0/A1)

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	6ES7134-6JF00-0CA1 (Base Units A0/A1)
	6ES7134-6JF00-2CA1 (Base Units A0/A1)
	6ES7134-6FB00-0BA1 (Base Units A0/A1)
	6ES7134-6GB00-0BA1 (Base Units A0/A1)
	6ES7134-6HB00-0CA1 (Base Units A0/A1)
	6ES7134-6HB00-0DA1 (Base Units A0/A1)
	6ES7135-6FB00-0BA1 (Base Units A0/A1)
	6ES7135-6GB00-0BA1 (Base Units A0/A1)
	6ES7135-6HB00-0CA1 (Base Units A0/A1)
	6ES7135-6HB00-0DA1 (Base Units A0/A1)
	6ES7135-6HD00-0BA1 (Base Units A0/A1)

Connection data

Connection 1 (control level)

Connection method	Plug-in connection
Number of connections	1
Number of positions	18

Connection 2 (field level)

Connection in acc. with standard	IEC 60603-13
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	20
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 3 (supply)

Connection method	Push-in spring connection
Stripping length	9 mm
Number of connections	1
Number of positions	2
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.14 mm ² ... 1.5 mm ²
	0.25 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve)
	0.25 mm ² ... 0.75 mm ² (Ferrule with plastic sleeve)
Conductor cross section AWG	26 ... 16
Pitch	3.81 mm

Dimensions

Item dimensions

Width	14.9 mm
Height	52.95 mm
Depth	48.99 mm

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Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP00
Degree of protection (Installation location)	≥ IP54
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

Approvals

UL, USA/Canada

Identification	UL 508 Recognized
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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.
Assembly note	Once plugged in, the front adapter and terminal block form a single unit that can no longer be separated.

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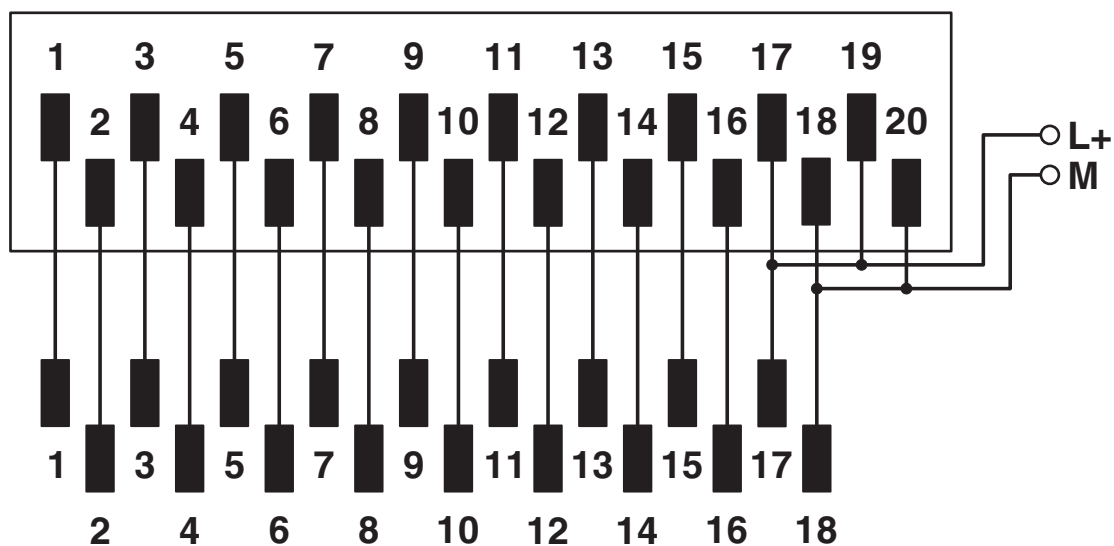


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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1099751>



UL Listed
Approval ID: E238705



cUL Listed
Approval ID: E238705

cULus Listed

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Classifications

ECLASS

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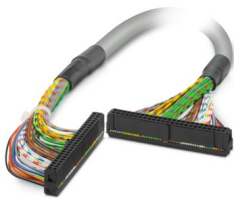
Accessories

FLK EZ-DR.../.../... - Cable

2295059

<https://www.phoenixcontact.com/pc/products/2295059>

Round cable, with preassembly, not shielded, variable cable length



FLK 20/EZ-DR/ 50KONFEK - Cable

2296391

<https://www.phoenixcontact.com/pc/products/2296391>

Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 0.5 m



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FLK 20/EZ-DR/ 100KONFEK - Cable

2296401

<https://www.phoenixcontact.com/pc/products/2296401>



Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 1 m

FLK 20/EZ-DR/ 150KONFEK - Cable

2296472

<https://www.phoenixcontact.com/pc/products/2296472>



Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 1.5 m

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FLK 20/EZ-DR/ 200KONFEK - Cable

2296485

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 2 m

FLK 20/EZ-DR/ 300KONFEK - Cable

2296498

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 3 m

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FLK 20/EZ-DR/ 400KONFEK - Cable

2296508

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 4 m

FLK 20/EZ-DR/ 800KONFEK - Cable

2296524

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 8 m

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FLK 20/EZ-DR/1000KONFEK - Cable

2296537

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (1x 20-position); cable length: 10 m

FLK 20/2FLK14/EZ-DR/ 50/KONFEK - Cable

2305059

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 0.5 m

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FLK 20/2FLK14/EZ-DR/100/KONFEK - Cable

2298470

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 1 m

FLK 20/2FLK14/EZ-DR/10M/KONFEK - Cable

2902708

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 10 m

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FLK 20/2FLK14/EZ-DR/200/KONFEK - Cable

2298438

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 2 m

FLK 20/2FLK14/EZ-DR/300/KONFEK - Cable

2300818

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 3 m

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FLK 20/2FLK14/EZ-DR/400/KONFEK - Cable

2305237

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Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 4 m

FLK 20/2FLK14/EZ-DR/500/KONFEK - Cable

2902707

<https://www.phoenixcontact.com/pc/products/2902707>



Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: 5 m

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FLK 20/2FLK14/EZ-DR/... - Cable

2304487

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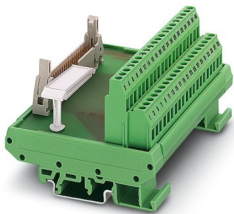


Round cable set; connection 1: IDC/FLK socket strip (1x 20-position); connection 2: IDC/FLK socket strip (2x 14-position); cable length: variable

FLKM 20 - Interface module

2281047

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VARIOFACE module, with screw connection and flat-ribbon cable connector, for mounting on NS 32 or NS 35/7.5, with pin strip and short and long locking latches for socket strips, 20-pos.

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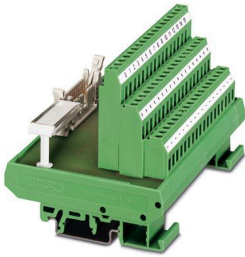
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FLKMS 20/16IM - Interface module

2282046

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VARIOFACE module, for mounting on NS 35/7.5 or NS 32, for connecting 16 proximity switches

UM 25-FLK20/FRONT/Q - Interface module

2959515

<https://www.phoenixcontact.com/pc/products/2959515>



VARIOFACE SLIM LINE, with screw connection and flat-ribbon cable connector, for assembly at a right angle on NS 35/7.5, 20 positions

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VIP-2/SC/FLK20 - Interface module

2315049

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VARIOFACE module, with screw connection and flat-ribbon cable connector, for mounting on NS 35 rails, with pin strip and short and long locking latches for socket strips, 20-pos.

VIP-2/PT/FLK20 - Interface module

2903790

<https://www.phoenixcontact.com/pc/products/2903790>



VARIOFACE module, with push-in connections and flat-ribbon cable connector, for mounting on NS 35 rails, with pin strip and short and long locking latches for socket strips, 20-pos.

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RIF-1-V8/PT/FLK14/OUT - System connection

2905195

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V8 adapter for 8 x RIF-1 relay base, controller: PLC system cabling of output cards, connection 1: Push-in connection 4x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection, number of channels: 8, control logic: positive switching

VIP-2/SC/FLK14/PLC - Passive module

2315214

<https://www.phoenixcontact.com/pc/products/2315214>



VARIOFACE interface module for 8 channels

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VIP-2/PT/FLK14/PLC - Passive module

2903801

<https://www.phoenixcontact.com/pc/products/2903801>

VARIOFACE interface module, with push-in connection for 8 channels



VIP-2/SC/FLK14/LED/PLC - Passive module

2322249

<https://www.phoenixcontact.com/pc/products/2322249>

VARIOFACE interface module, with LED, for 8 channels



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VIP-2/PT/FLK14/LED/PLC - Passive module

2904279

<https://www.phoenixcontact.com/pc/products/2904279>



VARIOFACE interface module, with push-in connection and light indicator, for 8 channels

VIP-3/SC/FLK14/8IM/PLC - Passive module

2322278

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VARIOFACE sensor module, for connecting 8 pnp sensors

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VIP-3/PT/FLK14/8IM/PLC - Passive module

2904282

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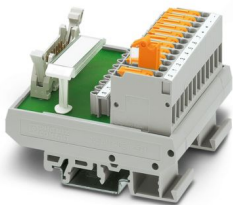


VARIOFACE sensor module, with push-in connection, for connecting 8 pnp sensors

FLKM 14/KDS3-MT/PPA/PLC - Passive module

2290423

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VARIOFACE interface module, for 8 channels with knife disconnect terminal blocks and test sockets to the peripherals and the system

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PLC-V8/FLK14/OUT - System connection

2295554

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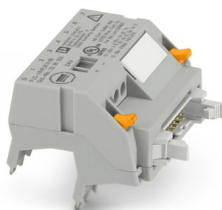


V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: positive switching

PLC-V8/FLK14/IN - System connection

2296553

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V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of input cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: positive switching

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PLC-V8L/FLK14/OUT - System connection

2299660

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V8 adapter for 8 x PLC-INTERFACE (14 mm), controller: PLC system cabling of output cards, connection 1: IDC/FLK pin strip 1x 14-position, connection 2: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), connection 3: Screw connection 1x 2-position, number of channels: 8, control logic: positive switching

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PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

info@phoenixcontact.com