

FLKM 20 - Interface module

2281047

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

Commercial data

Item number	2281047
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	C422
Product key	CK2181
Catalog page	Page 242 (IF-2007)
GTIN	4017918054496
Weight per piece (including packing)	114.47 g
Weight per piece (excluding packing)	1.29 g
Customs tariff number	85369010
Country of origin	DE

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Technical data

Product properties

Product type	Interface module
Product family	VARIOFACE
Number of positions	20

Data management status

Article revision	13
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (AC)	$\leq 30 \text{ V AC}$
Operating voltage (DC)	$\leq 60 \text{ V DC}$
Current (per branch)	$\leq 1 \text{ A}$

Air clearances and creepage distances

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

Connection data

Connection 1 (control 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 2 (field level)

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Number of positions	20
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
	0.25 mm ² ... 1.5 mm ² (Ferrule without plastic sleeve)
	0.25 mm ² ... 2.5 mm ² (Ferrule with plastic sleeve)
	0.2 mm ² ... 1.5 mm ²

FLKM 20 - Interface module



2281047

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Conductor cross section flexible (2 conductors with same cross section)	0.25 mm² ... 0.75 mm² (Ferrule without plastic sleeve)
	0.5 mm² ... 0.5 mm² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

Signaling

Status display present	No
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Dimensions

Item dimensions

Width	56.25 mm
Height	77 mm
Depth	57.47 mm

Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide 6 green

Environmental and real-life conditions

Ambient conditions

Degree of protection (Module)	IP00
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	DIN rail 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
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2281047

<https://www.phoenixcontact.com/us/products/2281047>



be met.

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2281047

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Drawings

Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2281047>

cUL Recognized Approval ID: E118976				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Field wiring	125 V	1 A	30 - 12	-

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cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

ETIM

ETIM 8.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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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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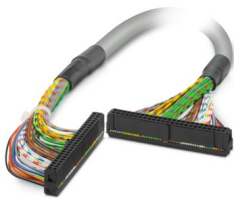
Accessories

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

2295059

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

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



FLK 20/EZ-DR/ 50KONFEK - Cable

2296391

<https://www.phoenixcontact.com/us/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



FLKM 20 - Interface module

2281047

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FLK 20/EZ-DR/ 100KONFEK - Cable

2296401

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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: 1 m

FLK 20/EZ-DR/ 150KONFEK - Cable

2296472

<https://www.phoenixcontact.com/us/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

FLKM 20 - Interface module



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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

FLKM 20 - Interface module



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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

FLKM 20 - Interface module

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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

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