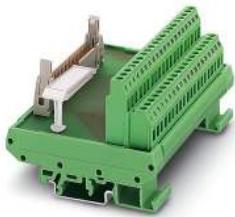


FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>

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VARIOFACE module, with screw connection and flat-ribbon cable connector, for mounting on NS 32 oder NS 35/7.5, with male connector and short and long locking latches for female connectors, number of positions 50, (1-1 connection)

Commercial data

Item number	2281089
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C422
Product key	CK2212
Catalog page	Page 242 (IF-2007)
GTIN	4017918054533
Weight per piece (including packing)	242.03 g
Weight per piece (excluding packing)	223.664 g
Customs tariff number	85369010
Country of origin	DE

FLKM 50 - Interface module



2281089

<https://www.phoenixcontact.com/us/products/2281089>

Technical data

Product properties

Product type	Interface module
Product family	VARIOFACE
Number of positions	50
No. of channels	16

Insulation characteristics

Insulation	Functional insulation
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Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

No. of channels	16 (variable)
Operating voltage (AC)	≤ 30 V AC
Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 1 A

Air clearances and creepage distances

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

Supported controller SIEMENS S7-400

Suitable I/O card	6ES7431-0HH0-0AB0
	6ES7431-1KF00-0AB0
	6ES7431-1KF10-0AB0
	6ES7431-1KF20-0AB0
	6ES7431-7KF00-0AB0
	6ES7431-7KF10-0AB0
	6ES7431-7QH00-0AB0
	6ES7432-1HF00-0AB0

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	50
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

FLKM 50 - Interface module



2281089

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Connection 2 (field level)

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of positions	50
Conductor cross section rigid	0.2 mm ² ... 4 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 12

Signaling

Status display present	No
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Dimensions

Width	135 mm
Height	77 mm
Depth	57.47 mm

Material specifications

Housing insulation material	Polyamide 6 green
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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 ... 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

General	For proper use, the specifications of the installation directive (see Downloads) must be observed.
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FLKM 50 - Interface module

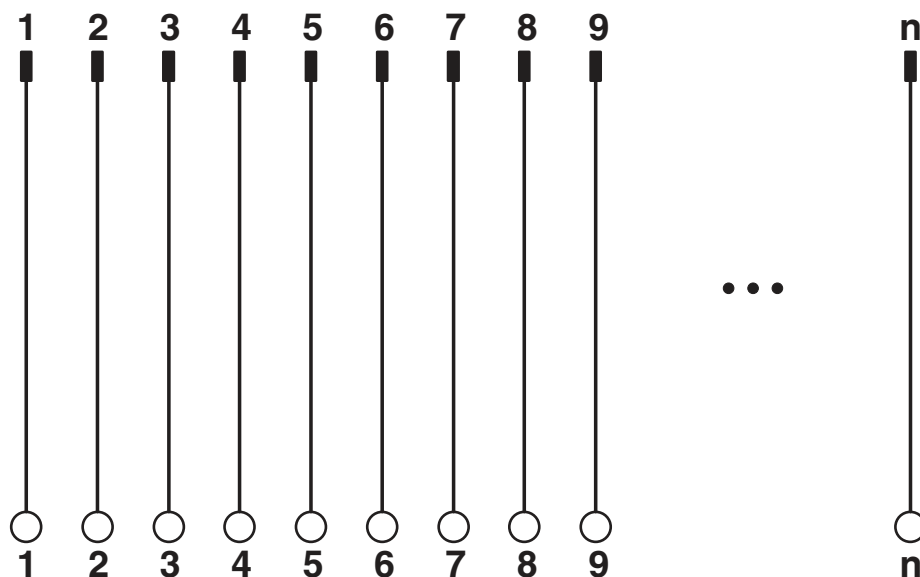
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Drawings

Circuit diagram



FLKM 50 - Interface module





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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2281089>

 cUL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	1 A	30 - 12	-

 UL Recognized Approval ID: FILE E 118976				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Field wiring	125 V	1 A	30 - 12	-

cULus Recognized

FLKM 50 - Interface module

2281089

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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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FLKM 50 - Interface module

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

FLKM 50 - Interface module

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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 EZ-DR-S.../.../... - Cable

2295046

<https://www.phoenixcontact.com/us/products/2295046>

Round cable, with preassembly, shielded, variable cable length



FLKM 50 - Interface module

2281089

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FLK 50/EZ-DR/ 50/KONFEK - Cable

2289065

<https://www.phoenixcontact.com/us/products/2289065>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

FLK 50/EZ-DR/ 100/KONFEK - Cable

2289078

<https://www.phoenixcontact.com/us/products/2289078>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 150/KONFEK - Cable

2289081

<https://www.phoenixcontact.com/us/products/2289081>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

FLK 50/EZ-DR/ 200/KONFEK - Cable

2289094

<https://www.phoenixcontact.com/us/products/2289094>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

FLKM 50 - Interface module

2281089

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FLK 50/EZ-DR/ 250/KONFEK - Cable

2289104

<https://www.phoenixcontact.com/us/products/2289104>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

FLK 50/EZ-DR/ 300/KONFEK - Cable

2289117

<https://www.phoenixcontact.com/us/products/2289117>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 350/KONFEK - Cable

2289120

<https://www.phoenixcontact.com/us/products/2289120>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3.5 m

FLK 50/EZ-DR/ 400/KONFEK - Cable

2289133

<https://www.phoenixcontact.com/us/products/2289133>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 450/KONFEK - Cable

2289573

<https://www.phoenixcontact.com/us/products/2289573>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4.5 m

FLK 50/EZ-DR/ 500/KONFEK - Cable

2289586

<https://www.phoenixcontact.com/us/products/2289586>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 550/KONFEK - Cable

2289599

<https://www.phoenixcontact.com/us/products/2289599>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5.5 m

FLK 50/EZ-DR/ 600/KONFEK - Cable

2289609

<https://www.phoenixcontact.com/us/products/2289609>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 6 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 700/KONFEK - Cable

2289625

<https://www.phoenixcontact.com/us/products/2289625>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7 m

FLK 50/EZ-DR/ 750/KONFEK - Cable

2289638

<https://www.phoenixcontact.com/us/products/2289638>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 7.5 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 800/KONFEK - Cable

2289641

<https://www.phoenixcontact.com/us/products/2289641>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8 m

FLK 50/EZ-DR/ 850/KONFEK - Cable

2289654

<https://www.phoenixcontact.com/us/products/2289654>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 8.5 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 900/KONFEK - Cable

2289667

<https://www.phoenixcontact.com/us/products/2289667>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 9 m

FLK 50/EZ-DR/1000/KONFEK - Cable

2289683

<https://www.phoenixcontact.com/us/products/2289683>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 125/KONFEK - Cable

2296197

<https://www.phoenixcontact.com/us/products/2296197>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.25 m

FLK 50/EZ-DR/1200/KONFEK - Cable

2296223

<https://www.phoenixcontact.com/us/products/2296223>



Round cable set; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 12 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 50/KONFEK/S - Cable

2299097

<https://www.phoenixcontact.com/us/products/2299097>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 0.5 m

FLK 50/EZ-DR/ 100/KONFEK/S - Cable

2299107

<https://www.phoenixcontact.com/us/products/2299107>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 1 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 150/KONFEK/S - Cable

2299110

<https://www.phoenixcontact.com/us/products/2299110>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 1.5 m

FLK 50/EZ-DR/ 200/KONFEK/S - Cable

2299123

<https://www.phoenixcontact.com/us/products/2299123>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 2 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 300/KONFEK/S - Cable

2299136

<https://www.phoenixcontact.com/us/products/2299136>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 3 m

FLK 50/EZ-DR/ 400/KONFEK/S - Cable

2299149

<https://www.phoenixcontact.com/us/products/2299149>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 4 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



FLK 50/EZ-DR/ 600/KONFEK/S - Cable

2299152

<https://www.phoenixcontact.com/us/products/2299152>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 6 m

FLK 50/EZ-DR/1000/KONFEK/S - Cable

2299178

<https://www.phoenixcontact.com/us/products/2299178>



Assembled shielded round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position) (The braided shield is routed to a separate cable end.); cable length: 10 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>

CABLE-FLK50/0,14/HF/ 0,5M - Cable

2314134

<https://www.phoenixcontact.com/us/products/2314134>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 0.5 m

CABLE-FLK50/0,14/HF/ 1,0M - Cable

2314147

<https://www.phoenixcontact.com/us/products/2314147>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>

CABLE-FLK50/0,14/HF/ 1,5M - Cable

2314150

<https://www.phoenixcontact.com/us/products/2314150>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 1.5 m

CABLE-FLK50/0,14/HF/ 2,0M - Cable

2314163

<https://www.phoenixcontact.com/us/products/2314163>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>

CABLE-FLK50/0,14/HF/ 2,5M - Cable

2314176

<https://www.phoenixcontact.com/us/products/2314176>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 2.5 m

CABLE-FLK50/0,14/HF/ 3,0M - Cable

2314189

<https://www.phoenixcontact.com/us/products/2314189>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 3 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>

CABLE-FLK50/0,14/HF/ 4,0M - Cable

2314192

<https://www.phoenixcontact.com/us/products/2314192>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 4 m

CABLE-FLK50/0,14/HF/ 5,0M - Cable

2314202

<https://www.phoenixcontact.com/us/products/2314202>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 5 m

FLKM 50 - Interface module

2281089

<https://www.phoenixcontact.com/us/products/2281089>



CABLE-FLK50/0,14/HF/10,0M - Cable

2314244

<https://www.phoenixcontact.com/us/products/2314244>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: 10 m

CABLE-FLK50-0,14-HF/... - Cable

2314257

<https://www.phoenixcontact.com/us/products/2314257>



Assembled, halogen-free round cable; connection 1: IDC/FLK socket strip (1x 50-position); connection 2: IDC/FLK socket strip (1x 50-position); cable length: variable

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