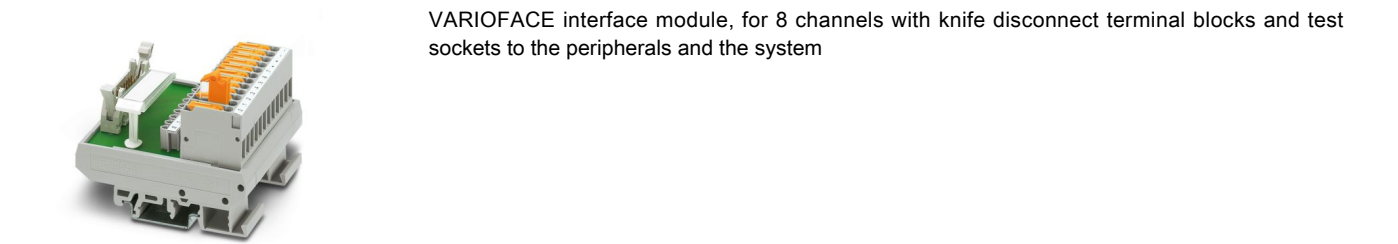


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Your advantages

- Byte-by-byte labeling
- Can be used for digital I/O modules

Commercial data

Item number	2290423
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2181
Catalog page	Page 523 (C-5-2019)
GTIN	4017918058036
Weight per piece (including packing)	161 g
Weight per piece (excluding packing)	126.47 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Product properties

Product type	Interface module
Product family	VARIOFACE
Number of positions	14
No. of channels	8

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (DC)	≤ 60 V DC
Current (per branch)	≤ 1 A
Current (Voltage supply)	≤ 3 A

Air clearances and creepage distances

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

Supported controller SIEMENS S7-1500

Suitable I/O card	6ES7521-1BH00-0AB0
	6ES7521-1BH50-0AA0
	6ES7521-1BL00-0AB0
	6ES7521-1BP00-0AA0 (Sinking mode)
	6ES7522-1BH00-0AB0
	6ES7522-1BH01-0AB0
	6ES7522-1BL00-0AB0
	6ES7522-1BL01-0AB0
	6ES7522-1BP00-0AA0
	6ES7522-1BP50-0AA0
	6ES7523-1BP50-0AA0 (DI32 (Sinking mode)/DQ32)

Supported controller ABB S800 I/O

Suitable I/O card	DI810
	DI811
	DI814
	DI818
	DI830
	DI831
	DI840
	DO810
	DO814

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



2290423

<https://www.phoenixcontact.com/us/products/2290423>

	DO818
	DO840

Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IB32
	1756-OB32
	1756-IN16
	1756-IB16
	1756-IC16
	1756-OB16E

Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 853
	DAI 453
	DDO 353

Supported controller SIEMENS S7-400

Suitable I/O card	6ES7421-1BL01-0AA0
	6ES7422-1BL00-0AA0
	6ES7422-7BL00-0AB0

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QX81
	QY81P
	QX41
	QX41-S1
	QX42
	QX42-S1
	QX71
	QX72
	QY41P
	QY42P
	QY71
	QH42P
	QX82
	QX82-S1
	QY82P

Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LX41C4
	LX42C4
	LY41NT1P
	LY42NT1P
	LY41PT1P
	LY42PT1P

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



2290423

<https://www.phoenixcontact.com/us/products/2290423>

Supported controller HONEYWELL Experion PKS C200

Suitable I/O card	TC-IDD 321
	TC-ODD 321

Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2DP
	CPU 314C-2PtP
	6ES7321-1BH02-0AA0
	6ES7321-1BL00-0AA0
	6ES7322-1BH01-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BH01-0AA0
	6ES7323-1BL00-0AA0
	6ES7321-1BH10-0AA0
	6ES7322-1BH10-0AA0
	CPU 313C
	CPU 313C-2PtP

Supported controller GE-FANUC RX3i

Suitable I/O card	IC694MDL754
	IC694MDL660

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	14
Insertion/withdrawal cycles	> 50
Pitch	2.54 mm

Connection 2 (field level)

Connection method	Screw connection with disconnect knife
Stripping length	8 mm
Screw thread	M3
Number of positions	12
Conductor cross section rigid	0.2 mm² ... 4 mm²
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm² ... 1 mm²
Conductor cross section flexible	0.2 mm² ... 4 mm²
	0.25 mm² ... 2.5 mm² (Ferrule without plastic sleeve)
	0.25 mm² ... 1.5 mm² (Ferrule with plastic sleeve)
Conductor cross section flexible (2 conductors with same cross section)	0.2 mm² ... 1 mm²
	0.25 mm² ... 0.75 mm² (Ferrule without plastic sleeve)

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



2290423

<https://www.phoenixcontact.com/us/products/2290423>

	0.5 mm² ... 1 mm² (TWIN ferrule with plastic sleeve)
Conductor cross section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

Connection 3 (field level)

Connection method	Test socket
Number of positions	10

Signaling

Status display present	No
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Dimensions

Item dimensions

Width	67.35 mm
Height	77.07 mm
Depth	51.43 mm

Material specifications

Color	gray (RAL 7042)
Housing insulation material	PVC

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
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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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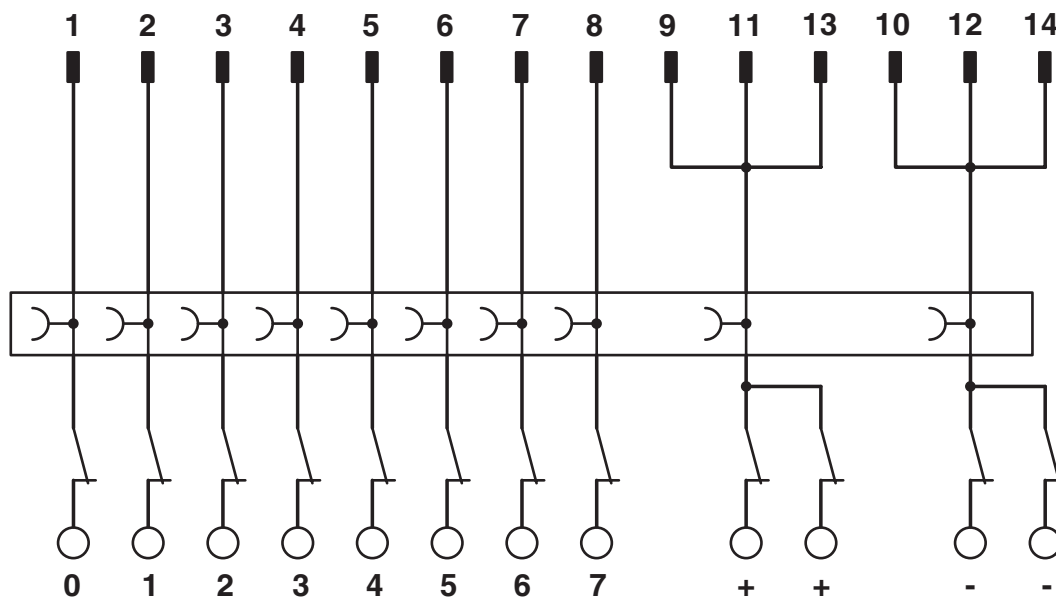


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Drawings

Circuit diagram



FLKM 14/KDS3-MT/PPA/PLC connection scheme

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2290423

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2290423>

	UL Listed Approval ID: E238705			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	24 V	1 A	-	-

	cUL Listed Approval ID: E238705			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	24 V	1 A	-	-

cULus Listed

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Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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FLKM 14/KDS3-MT/PPA/PLC - Passive module



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Lead(CAS: 7439-92-1)
SCIP	0844732d-7315-46aa-ab12-8b3d1468ec63

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