

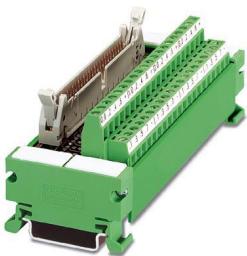
# UM 45-FLK50/LA/PLC - Passive module

2962502

<https://www.phoenixcontact.com/us/products/2962502>



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VARIOFACE COMPACT LINE, interface module for 32 channels, with LED, for assembly on DIN rail NS 35/7.5, screw connection

## Commercial data

Item number	2962502
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK21A1
GTIN	4017918087203
Weight per piece (including packing)	137.2 g
Weight per piece (excluding packing)	113.37 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	50
No. of channels	32

### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage range	19.2 V DC ... 26.4 V DC
Current (per branch)	≤ 1 A
Current (Voltage supply per byte)	≤ 2 A

### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 µs)

### Supported controller SIEMENS S7-400

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

### Supported controller ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-IB32
	1756-OB32

### Supported controller ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 IBN
	1771 OBN

### Supported controller HONEYWELL Experion PKS C200

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

### Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QX81
	QY81P

### Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 853
	DDO 353

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Supported controller SIEMENS S7-300 / ET 200 M

Suitable I/O card	CPU 313C-2DP
	CPU 314C-2DP
	CPU 314C-2PtP
	6EST321-1BL00-0AA0
	6EST322-1BL00-0AA0
	6EST323-1BL00-0AA0
	CPU 313C
	CPU 313C-2PtP

## 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

Connection 2 (field level)

Connection method	Screw connection
Stripping length	6 mm
Screw thread	M3
Number of positions	40
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 0.25 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Ferrule without plastic sleeve) 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section flexible (2 conductors with same cross section)	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> 0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (Ferrule without plastic sleeve) 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross-section AWG	26 ... 16
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

## Signaling

Status display	LED (yellow)
Status display present	yes
Operating voltage display	Green LED

## Dimensions

Item dimensions

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Width	124.8 mm
Height	45 mm
Depth	50.5 mm

## Material specifications

Housing insulation material	PVC
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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

## Standards and regulations

Air clearances and creepage distances	
Standards/regulations	EN IEC 60664-1

## 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 be met.
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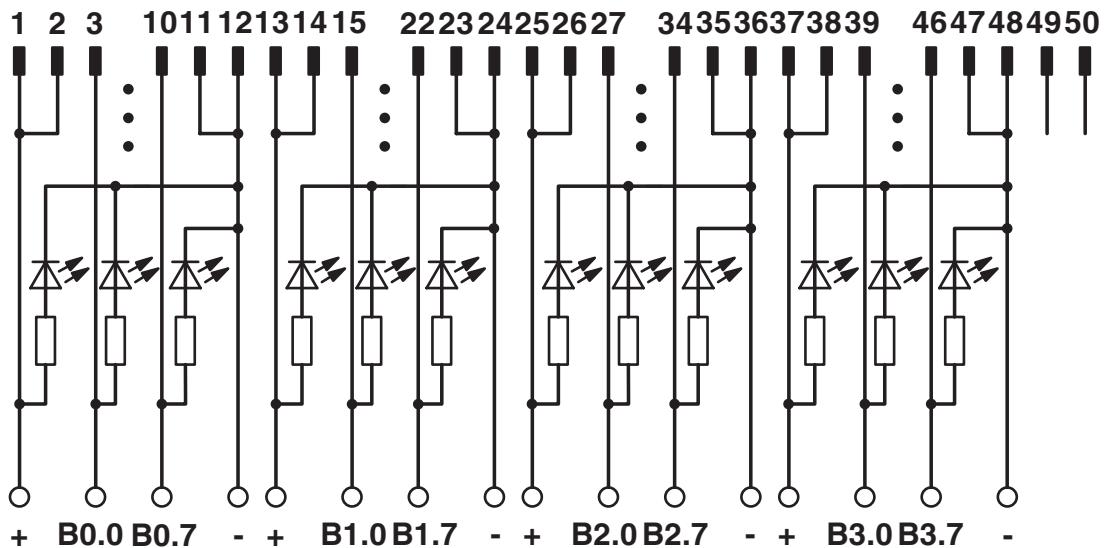
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## Drawings

Circuit diagram



UM 45-FLK50/LA/PLC connection scheme

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## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2962502>



**cUL Recognized**

Approval ID: E238705



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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 9.0	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
Exemption	6(c), 7(c)-I

### 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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
SCIP	d07ad526-ede6-4371-8370-c7f70d3b226f

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