

# UM 45-DI/DO/S/LA/SIM8 - Interface module



2968205

<https://www.phoenixcontact.com/us/products/2968205>

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VARIOFACE switch module, with flat-ribbon cable and COMBICON connector, for simulation, for 8 signals, for mounting on NS 35/7.5

## Commercial data

Item number	2968205
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C422
Product key	CK2261
Catalog page	Page 535 (C-5-2017)
GTIN	4017918173685
Weight per piece (including packing)	87 g
Weight per piece (excluding packing)	61.08 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Notes

General	For proper use, the specifications of the installation directive (see Downloads) must be observed.
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### Product properties

Product type	Interface module
Product family	VARIOFACE

### 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

Operating voltage range	19.2 V DC ... 26.4 V DC
Current (per branch)	≤ 1 A
Current (Voltage supply +,- IDC/FLK)	≤ 3 A
Current (Terminal block +,-)	≤ 8 A

### Air clearances and creepage distances

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

### Supported controller ABB S800 I/O

Suitable I/O card	DO810
	DI818
	DO840

### Supported controller SIEMENS S7-400

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

### Supported controller GE-FANUC 90-30

Suitable I/O card	IC693 MDL241
	IC693 MDL634
	IC693 MDL645
	IC693 MDL646
	IC693 MDL732
	IC693 MDL740
	IC693 MDL742

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## Supported controller ALLEN-BRADLEY ControlLogix

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

## Supported controller ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 IBN
	1771 OBN

## Supported controller ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 IB16
	1746 ITB16
	1746 IN16
	1746 IB 32
	1746 OB16
	1746 OB 32

## 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 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
	6ES7323-1BH01-0AA0
	6ES7323-1BL00-0AA0
	6ES7321-1BH10-0AA0
	CPU 313C
	CPU 313C-2PtP
	6ES7322-1BH01-0AA0
	6ES7322-1BL00-0AA0
	6ES7323-1BH01-0AA0
	6ES7323-1BL00-0AA0

## Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDI 353
	DDI 853

## Supported controller ALLEN-BRADLEY ControlLogix

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Suitable I/O card	DI810
	DI830
	DI840

## Supported controller EMERSON DeltaV

Suitable I/O card	VE4001S2T2B3
	VE4002S1T1B3
	VE4002S1T2B3
	VE4002S1T2B3 Series 2
	VE4002S1T2B6

## Supported controller GE-FANUC RX3i

Suitable I/O card	IC694MDL660
	IC694MDL754

## Supported controller YOKOGAWA CS3000 CentumVP

Suitable I/O card	ADV151
	ADV161

## Supported controller YOKOGAWA STARDOM

Suitable I/O card	NFDV151
	NFDV161

## 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
Stripping length	8 mm
Screw thread	M3
Number of positions	12
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 ... 16

## Signaling

Status display	Yellow LED
Status display present	Yes
Operating voltage display	Green LED

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## Dimensions

Width	74.8 mm
Height	50.02 mm
Depth	50.9 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
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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

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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

REACH SVHC	Hexahydromethylphthalic anhydride
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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