

# UM 45-DO/LA/SIM8 - Termination board



2968195

<https://www.phoenixcontact.com/us/products/2968195>

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

## Commercial data

Item number	2968195
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C422
Product key	DK21A1
GTIN	4017918173692
Weight per piece (including packing)	83.3 g
Weight per piece (excluding packing)	83.3 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Interface module
Product family	VARIOFACE

### 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: SIEMENS S7-400

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

### Supported controller: GE-FANUC 90-30

Suitable I/O card	IC693 MDL732
	IC693 MDL740
	IC693 MDL742

### Supported controller: ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-OB32
	1756-OB16E

### Supported controller: ALLEN-BRADLEY PLC 5

Suitable I/O card	1771 OBN
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### Supported controller: ALLEN-BRADLEY SLC 500

Suitable I/O card	1746 OB16
	1746 OB 32

### Supported controller: HONEYWELL Experion PKS C200

Suitable I/O card	TC-ODD 321
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### Supported controller: MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
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### Supported controller: SIEMENS S7-300 / ET 200 M

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

Supported controller: ABB S800 I/O

Suitable I/O card	DO810
	DO840

Supported controller: EMERSON DeltaV

Suitable I/O card	VE4002S1T1B3
	VE4002S1T2B3
	VE4002S1T2B3 Series 2
	VE4002S1T2B6

Supported controller: GE-FANUC RX3i

Suitable I/O card	IC694MDL754
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## 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	7 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 rigid (2 conductors with same cross section)	0.08 mm <sup>2</sup> ... 0.5 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> ... 1.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule with plastic sleeve)
Conductor cross-section flexible (2 conductors with same cross section)	0.08 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.5 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)

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Conductor cross-section AWG	28 ... 16
Tightening torque	0.22 Nm ... 0.25 Nm
Pitch	3.81 mm

## Signaling

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

## Dimensions

### Item dimensions

Width	74.8 mm
Height	50.02 mm
Depth	50.9 mm

## Material specifications

Color	green (RAL 6021)
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 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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be met.

# UM 45-DO/LA/SIM8 - Termination board

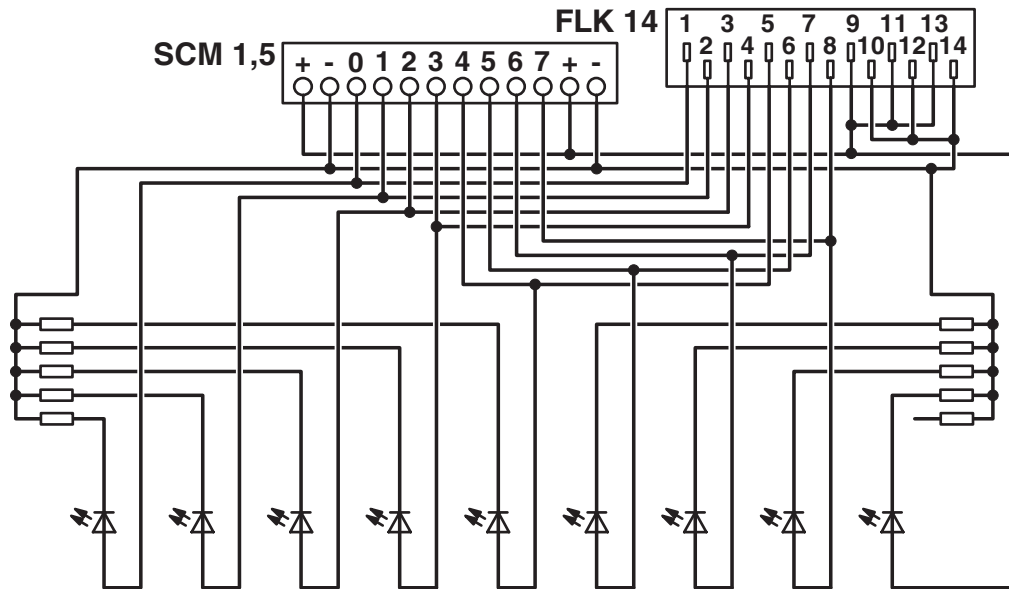


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## Drawings

Circuit diagram



UM 45-DO/LA/SIM8 connection scheme

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	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	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	d6a3a0eb-dd2a-46bb-9c0b-8de985ceee7c

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