

2974901

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VARIOFACE output module, with plug-in bases for 16 miniature relays, 1 changeover contact each, for 24 V DC (basic module, without relays)

### Your advantages

- LED status indicator per signal path and supply voltage
- · Freewheeling and polarity protection diode for each signal path
- Plug-in miniature relays, each with a changeover contact

#### Commercial data

Item number	2974901
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK2191
Catalog page	Page 539 (C-5-2017)
GTIN	4017918089009
Weight per piece (including packing)	462.4 g
Weight per piece (excluding packing)	380.9 g
Customs tariff number	85364190
Country of origin	DE



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### Technical data

# Product properties Product type

	No. of channels	16
		32
	Operating mode	100% operating factor
	Mechanical service life	3x 10 <sup>7</sup> cycles
	Compatible components	Miniature relay, REL-MR- 24DC/21HC
	With components	no
	Insulation characteristics	
	Overvoltage category	III
	Pollution degree	2
Ele	ectrical properties	
	Rated insulation voltage	300 V AC
	Rated surge voltage	4 kV (Basic insulation between output contact current paths)
		6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths)
	Supported controller SIEMENS S7-400	
	Suitable I/O card	6ES7422-1BL00-0AA0
		6ES7422-7BL00-0AB0
	Supported controller ALLEN-BRADLEY ControlLogix	
	Suitable I/O card	1756-OB32
	0	
	Supported controller ALLEN-BRADLEY PLC 5	4774 OPN
	Suitable I/O card	1771 OBN
;	Supported controller HONEYWELL Experion PKS C200	
	Suitable I/O card	TC-ODD 321
	Supported controller MITSUBISHI MELSEC Q	
	Suitable I/O card	QY81P
	Supported controller SCHNEIDER ELECTRIC Modicon TSX QUANTUM	
	Suitable I/O card	DDO 353
;	Supported controller SIEMENS S7-300 / ET 200 M	
	Suitable I/O card	6ES7322-1BL00-0AA0
	Supported controller GE-FANUC RX3i	
	Suitable I/O card	IC694MDL754
Inp	out data	
Ì	Nominal input voltage U <sub>N</sub>	24 V DC
	i v	

Interface module



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nput voltage range in reference to U <sub>N</sub>	0.8 1.1
Typical input current at U <sub>N</sub>	2 mA (Light indicator)
Protective circuit	Freewheeling diode; Freewheeling diode
Operating voltage display	Green LED
Status display/channel	Yellow LED
put data	
Compatible components	Miniature relay, REL-MR- 24DC/21HC
witching	
Contact switching type	1 changeover contact
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
nnection data	
Controller level	
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	50
Pitch	2.54 mm
ield level	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	48
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
upply	
Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	4
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Connection for extension module	
Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	20

2.54 mm

### Signaling

Pitch



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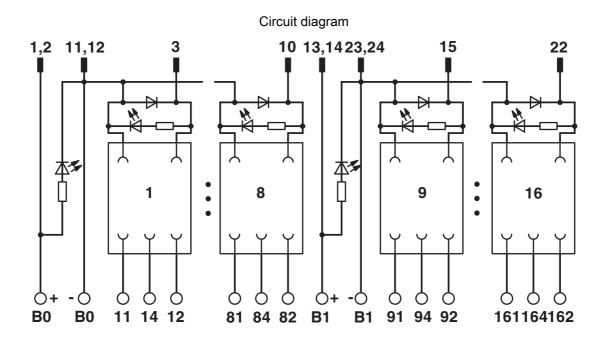
Status display present	Yes
	100
mensions	
Width	259 mm
Height	77 mm
Depth	59 mm
aterial specifications	
Color	green (RAL 6021)
vironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP00
Ambient temperature (operation)	-20 °C 50 °C
Ambient temperature (storage/transport)	-20 °C 70 °C
andards and regulations	
Standards/regulations	EN 61010-2-201
	IEC 60664
ounting	
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any
otes	
····	Observe the manipular quitching agreeity of the valeur upod
Notes on operation  Notes on operation	Observe the maximum switching capacity of the relays used  Do not connect adjacent channels to SELV/ PELV and voltages
Notes on operation	dangerous to the touch.
Notes on operation	The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjace outputs must not exceed the rated insulation voltage value
Notes on operation	The necessary requirements for insulation (basic insulation or reinforced insulation) from adjacent modules (in DIN-rail direction) must be realized by applying suitable measures (e. g partition plates).
Notes on operation	For proper use, the specifications of the installation directive (s Downloads) must be observed. For applications or use with this party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must als be met.
Utilization restriction	
EMC note	EMC: class A product, see manufacturer's declaration in the



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### Drawings





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### **Approvals**

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EAC

Approval ID: RU\*DE\*08.B.01841/19



**UL Listed** 

Approval ID: FILE E 238705



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27141152	
	ECLASS-12.0	27141152	
	ECLASS-13.0	27141152	
ETIM			
	ETIM 9.0	EC002780	
UNSPSC			
	UNSPSC 21.0	39121400	



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)
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)
	Lead(CAS: 7439-92-1)
SCIP	c839830a-b242-4325-b123-fdd32b032877



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### Mandatory accessories

REL-MR- 24DC/21HC - Single relay

2961312

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Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

### SIM-ERSN-HB-MR - Retaining bracket

2271471

https://www.phoenixcontact.com/us/products/2271471

Retainer, for miniature relay



#### Accessories



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#### UMK-16 RELS/KSR-G24/21/E/PLC - Active module

2974891

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VARIOFACE output extension module, with plug-in bases for 16 miniature relays, 1 changeover contact each, for 24 V DC (without relays)

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