

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

1 Toddet type	menace module
No. of channels	16
	32
Operating mode	100% operating factor
Mechanical service life	3x 10 ⁷ cycles
Compatible components	Miniature relay, REL-MR- 24DC/21HC
With components	no
Data management status	
Article revision	14
ALLIGIC TO VISION	17
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
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
Supported controller ALLEN-BRADLEY PLC 5	
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 QU	JANTUM
Suitable I/O card	DDO 353
Supported controller SIEMENIS S7 200 / ET 200 M	
Supported controller SIEMENS S7-300 / ET 200 M	6F67222 4BL00 0AA0
Suitable I/O card	6ES7322-1BL00-0AA0
Supported controller GE-FANUC RX3i	
Suitable I/O card	IC694MDL754

Interface module



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Input data

Nominal input voltage U _N	24 V DC
Input voltage range in reference to U_N	0.8 1.1
Typical input current at U _N	2 mA (LED display)
Protective circuit	Freewheeling diode; Freewheeling diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Compatible components	Miniature relay, REL-MR- 24DC/21HC	
Switching		
Contact switching type	1 changeover contact	
Maximum switching voltage	250 V AC/DC	
Limiting continuous current	5 A	

Connection data

Controller level

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	50
Pitch	2.54 mm

Field 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 mm ² 2.5 mm ²
Conductor cross section AWG	24 12

Supply

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



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Pitch

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Status display present	Yes
mensions	
Width	259 mm
Height	77 mm
Depth	59 mm
aterial specifications	
Color	green (RAL 6021)
nvironmental 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
Ctallian advisignations	IEC 60664
ounting.	
ounting	DIN 11 II
Mounting type	DIN rail mounting
Assembly note Mounting position	in rows with zero spacing
wounting position	any
otes	
Notes on operation	Observe the maximum switching capacity of the relays used
Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages 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 thi 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 download area

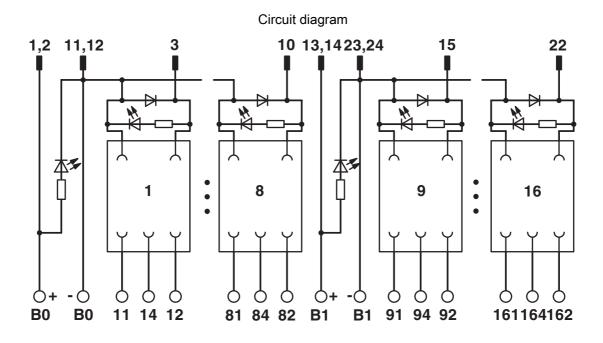
2.54 mm



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Drawings





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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2974901



EAC

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



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

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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

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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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