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VARIOFACE output module, with 8 miniature relays, 1 changeover contact each, plugged, for 24 V DC (including 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	2979485
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2191
GTIN	4017918130350
Weight per piece (including packing)	380 g
Weight per piece (excluding packing)	380 g
Customs tariff number	85364190
Country of origin	DE

UMK- 8 RM/KSR-G 24/21/PLC - Active module

2979485

<https://www.phoenixcontact.com/us/products/2979485>



Technical data

Product properties

Product type	Interface module
No. of channels	8
Operating mode	100% operating factor
Mechanical service life	3×10^7 cycles
Compatible components	Miniature relay, REL-MR- 24DC/21HC
With components	yes

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical 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 S7-1500

Suitable I/O card	6ES7522-1BH00-0AB0 6ES7522-1BH01-0AB0 6ES7522-1BL00-0AB0 6ES7522-1BL01-0AB0
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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 6ES7322-1BH01-0AA0 6ES7322-1BL00-0AA0 6ES7323-1BH01-0AA0 6ES7323-1BL00-0AA0 CPU 313C CPU 313C-2PtP
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Supported controller SIEMENS S7-400

Suitable I/O card	6ES7422-1BL00-0AA0 6ES7422-7BL00-0AB0
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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 OB 32
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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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Supported controller HONEYWELL Experion PKS C200

Suitable I/O card	TC-ODD 321
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Supported controller MITSUBISHI MELSEC L

Suitable I/O card	LY41PT1P
	LY42PT1P
	QY82P

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
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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
Input voltage range	19.2 V DC ... 26.4 V DC
Typical input current at U_N	23 mA
Typical response time	9 ms
Typical release time	10 ms
Protective circuit	Freewheeling diode; Freewheeling diode
	Reverse polarity protection; Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Compatible components	Miniature relay, REL-MR- 24DC/21HC
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Switching

Contact switching type	1 changeover contact
Contact material	AgCdO
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Maximum inrush current	6 A
Min. switching current	10 mA

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Interrupting rating (ohmic load) max.	120 W (24 V DC, $\tau = 0$ ms)
	58 W (48 V DC, $\tau = 0$ ms)
	48 W (60 V, $\tau = 0$ ms)
	50 W (110 V DC, $\tau = 0$ ms)
	80 W (220 V DC, $\tau = 0$ ms)
	1250 VA (250 V AC, $\tau = 0$ ms)

Connection data

Field level

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Number of connections	24
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm

Controller level

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Pitch	2.54 mm

Supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	2
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Signaling

Status display present	yes
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Dimensions

Width	135 mm
Height	77 mm
Depth	54 mm

Material specifications

Color	green (RAL 6021)
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Environmental and real-life conditions

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Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

Standards and regulations

Standards/regulations	EN 61010-2-201
	IEC 60664

Mounting

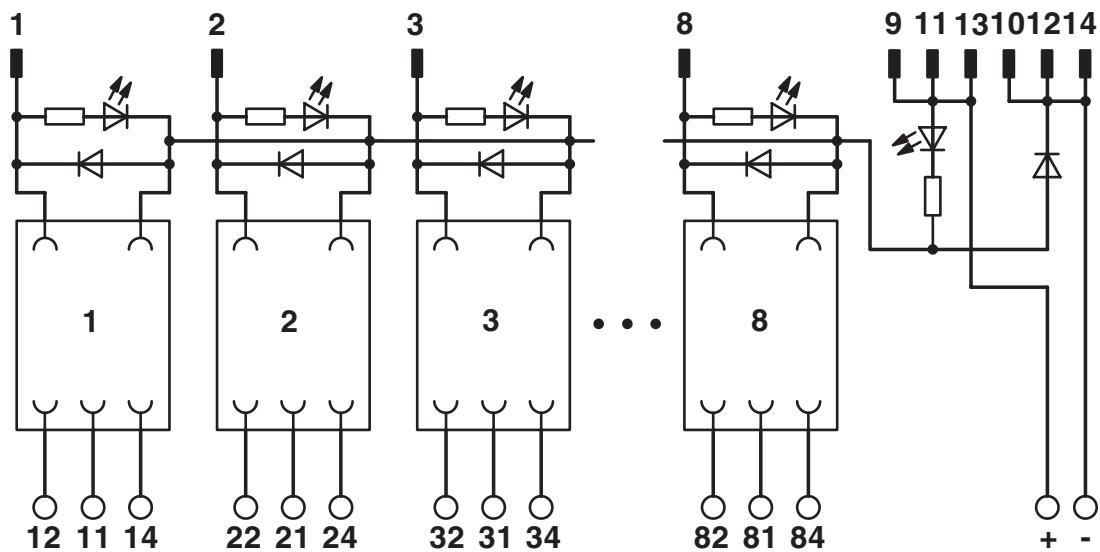
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Notes

Notes on operation	Observe the maximum switching power 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 adjacent 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 (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.

Drawings

Circuit diagram



Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2979485>



EAC

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



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705

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	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	907ab456-4326-49c3-966e-7ef2e6a44d41

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Phoenix Contact USA
 586 Fulling Mill Road
 Middletown, PA 17057, United States
 (+717) 944-1300
info@phoenixcon.com