

UM- 8 RM/RT-G24/21/PLC - Active module



2968386
<https://www.phoenixcontact.com/us/products/2968386>

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VARIOFACE output module, with 8 miniature relays, 1 changeover contact, plugged, for 24 V DC (including relays)



Your advantages

- Narrow design width of just 80 mm (8 channels) or 271 mm (32 channels)
- LED status indicator per signal path and supply voltage
- Plug-in miniature relays, each with a changeover contact
- Freewheeling diode for each signal path

Commercial data

Item number	2968386
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2191
GTIN	4017918917494
Weight per piece (including packing)	334.7 g
Weight per piece (excluding packing)	284.84 g
Customs tariff number	85364190
Country of origin	DE

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Technical data

Product properties

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

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Rated insulation voltage	260 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 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

Supported controller MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
	QY82P

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.85 ... 1.1
Input voltage range	20.4 V DC ... 26.4 V DC
Typical input current at U_N	18 mA
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Freewheeling diode; Freewheeling diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

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

Contact switching type	1 changeover contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	12 V AC/DC
Limiting continuous current	5 A
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	120 W (at 24 V DC)
	58 W (at 48 V DC)
	48 W (at 60 V DC)
	50 W (at 110 V DC)
	80 W (at 220 V DC)
	1250 VA (for 250 V AC)
Error detection (line break / short-circuit)	no

Connection data

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Controller level

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

Field level

Connection method	Screw connection
Stripping length	8 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

Supply

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of connections	2
Number of positions	3
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	80.5 mm
Height	125.5 mm
Depth	62.5 mm

Material specifications

Color	green (RAL 6021)
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Environmental 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

Standards and regulations

Standards/regulations	DIN EN 50178
	IEC 60664

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Mounting

Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
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 be met.
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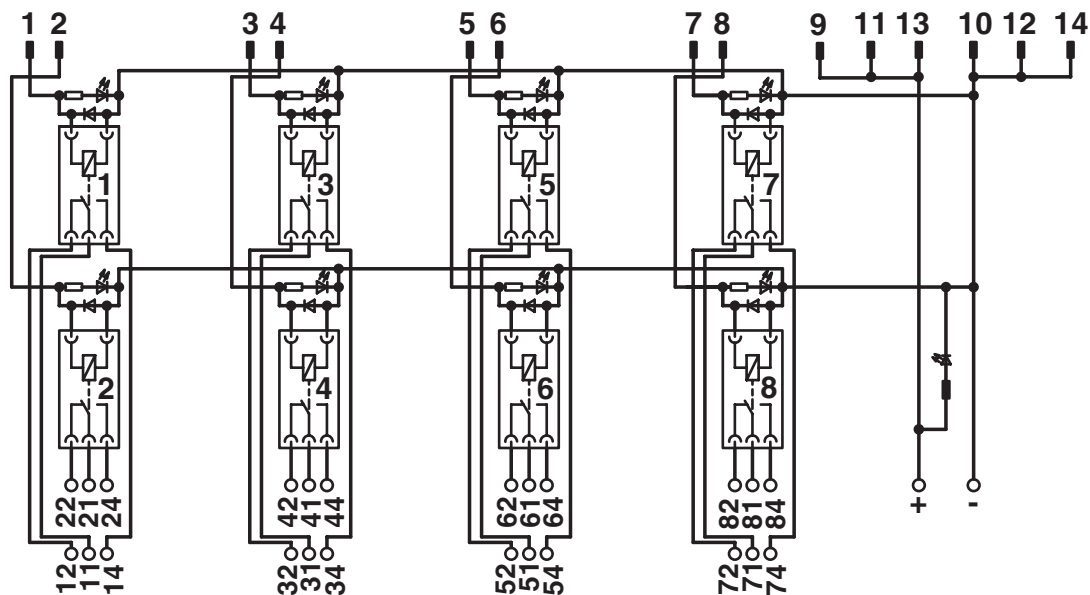
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Drawings

Circuit diagram



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Classifications

ETIM

ETIM 8.0	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)

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