

# 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 <sup>7</sup> 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

### 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	

### Supported controller: SIEMENS S7-400

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

### 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 <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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 <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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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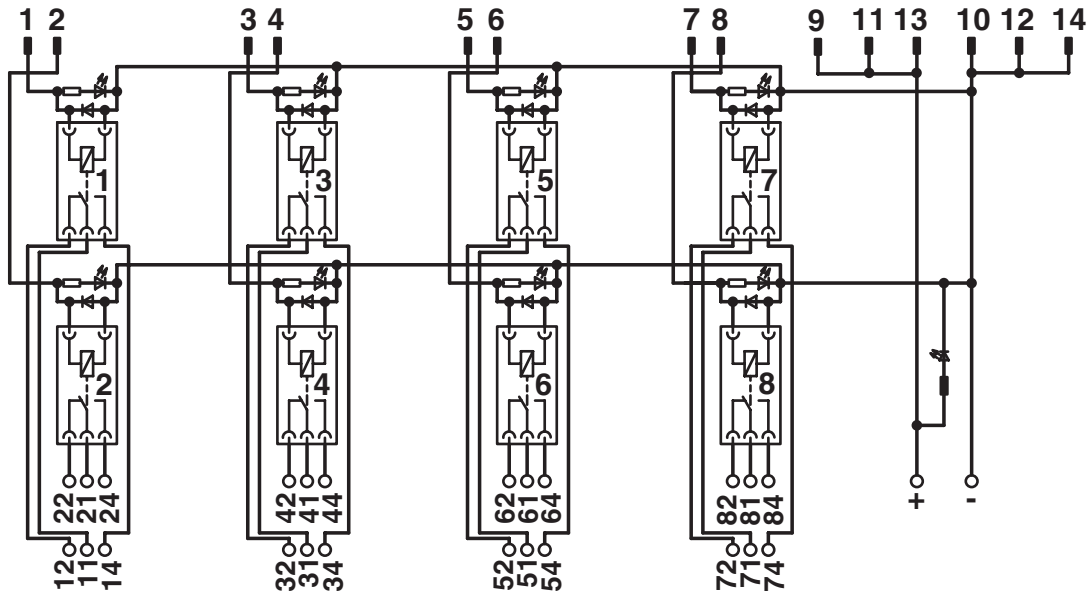


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## Drawings

Circuit diagram



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## Classifications

### 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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