

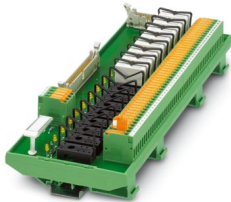
# UM-16 RELS/KSR-G24/21/MT/PLC - Active module



2962382

<https://www.phoenixcontact.com/us/products/2962382>

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VARIOFACE output module, with plug-in bases for 16 miniature relays, 1 changeover contact each, for 24 V DC, with knife-disconnect terminal blocks in the output (without relays)

## Your advantages

- Supply voltage indicator (LED)
- Polarity protection diode
- LED status indicator and freewheeling diode per signal path
- Plug-in miniature relays

## Commercial data

Item number	2962382
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2191
GTIN	4017918087159
Weight per piece (including packing)	717 g
Weight per piece (excluding packing)	717 g
Customs tariff number	85364190
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
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

### 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	6ES7522-1BL00-0AB0
	6ES7522-1BL01-0AB0

#### 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: 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

#### Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

Suitable I/O card	DDO 353
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#### Supported controller: SIEMENS S7-300 / ET 200 M

Suitable I/O card	6ES7322-1BL00-0AA0
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Supported controller: GE-FANUC RX3i

Suitable I/O card	IC694MDL754
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## Input data

Nominal input voltage $U_N$	24 V DC
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
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## Switching

Note	The interrupting ratings apply when using the REL-MR-24DC/21HC relay (2961312)
Contact switching type	1 changeover contact
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A
Min. switching current	10 mA
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

### 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 with disconnect knife
Stripping length	8 mm
Screw thread	M3
Number of connections	48
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 with disconnect knife
Stripping length	8 mm

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Screw thread	M3
Number of connections	4
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

## Connection for extension module

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	20
Pitch	2.54 mm

## Signaling

Status display present	yes
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## Dimensions

Width	267 mm
Height	112 mm
Depth	52 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

## 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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### Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the
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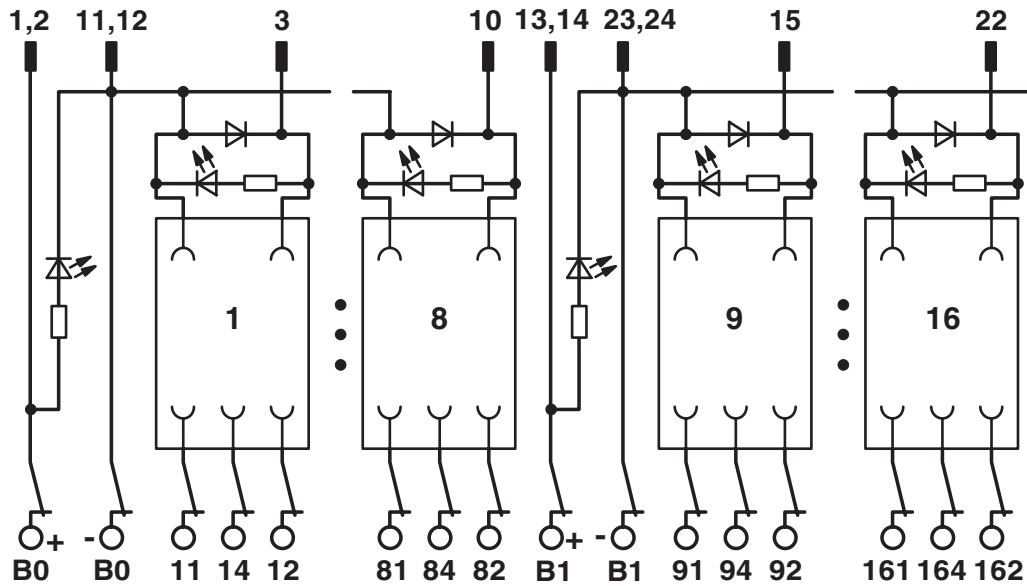
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download area

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	6(c), 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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