

# UM 45- 8RM/MR-G24/1/PLC - Active module



2962900

<https://www.phoenixcontact.com/us/products/2962900>

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VARIOFACE COMPACT LINE, output module with 8 miniature relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)

## Your advantages

- Low depth of just 45 mm
- Universal applications from 1 mA to 3 A continuous current thanks to 2-layer double contact with hard gold plating
- LED status indicator per signal path and supply voltage
- Freewheeling and polarity protection diode for each signal path
- Plug-in miniature relays each with an N/O contact

## Commercial data

Item number	2962900
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK21B1
GTIN	4017918087500
Weight per piece (including packing)	140.4 g
Weight per piece (excluding packing)	107.27 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	2x 10 <sup>7</sup> cycles
Compatible components	Miniature relay, REL-MR-G 24/1
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)

#### Supported controller: SIEMENS S7-400

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

#### Supported controller: GE-FANUC 90-30

Suitable I/O card	IC693 MDL732
	IC693 MDL740
	IC693 MDL742

#### Supported controller: ALLEN-BRADLEY ControlLogix

Suitable I/O card	1756-OB32
	1756-OB16E

#### 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 OB16
	1746 OB 32

#### Supported controller: HONEYWELL Experion PKS C200

Suitable I/O card	TC-ODD 321
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#### Supported controller: MITSUBISHI MELSEC Q

Suitable I/O card	QY81P
	QY82P

#### Supported controller: SIEMENS S7-300 / ET 200 M

CPU 313C-2DP
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Suitable I/O card	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: ABB S800 I/O

Suitable I/O card	DO810
	DO840

Supported controller: GE-FANUC RX3i

Suitable I/O card	IC694MDL754
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Supported controller: MITSUBISHI MELSEC L

Suitable I/O card	LY41PT1P
	LY42PT1P

## 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 $U_N$	6.5 mA
Typical response time	5 ms
Typical release time	15 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-G 24/1
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## Switching

Contact switching type	1 N/O contact
Type of switch contact	Double contact
Contact material	AgNi, 5 µm hard gold-plated
Maximum switching voltage	250 V AC
	125 V DC
Minimum switching voltage	5 V
Limiting continuous current	3 A
Maximum inrush current	5 A
Min. switching current	1 mA
	72 W (24 V DC)

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Interrupting rating (ohmic load) max.	60 W (48 V DC)
	50 W (60 V DC)
	50 W (110 V DC)
	750 VA (250 V AC)

## Connection data

### 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	18
Number of positions	3
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

### Supply

Connection method	Screw connection
Stripping length	6 mm
Screw thread	M3
Number of connections	1
Number of positions	2
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 16

## Signaling

Status display present	yes
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## Dimensions

Width	103 mm
Height	45 mm
Depth	50.5 mm

## Material specifications

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

### Ambient conditions

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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.

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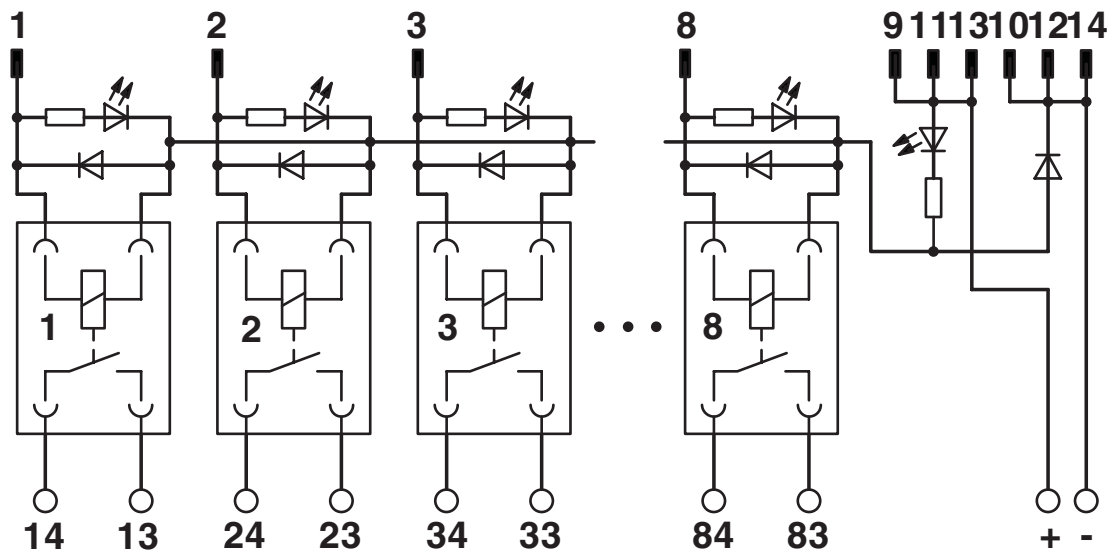


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2962900>



**EAC**

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

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	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), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
SCIP	83df0483-5f70-480c-b133-be086ba268e1

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