

## Active module - UMK-16 RELS/KSR-G24/21/PLC - 2974901

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VARIOFACE output module, with plug-in bases for 16 miniature relays, 1 PDT each, for 24 V DC (basic module, without relays)

### Why buy this product

- 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 PDT contact



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 089009
Weight per Piece (excluding packing)	380.9 g
Custom tariff number	85364190
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	259 mm
Height	77 mm
Depth	59 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

#### Input data

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## Technical data

### Input data

Nominal input voltage $U_N$	24 V DC
Input voltage range in reference to $U_N$	0.8 ... 1.1
Typical input current at $U_N$	2 mA (Light indicator)
Type of protection	Free-wheeling diode
Protective circuit/component	Damping diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

### Output data

Contact type	1 PDT
Maximum switching voltage	250 V AC/DC
Limiting continuous current	5 A

### General

No. of channels	16
	32
Compatible components	Miniature relay, REL-MR- 24DC/21HC
With components	No
Mechanical service life	$3 \times 10^7$ cycles
Operating mode	100% operating factor
Degree of protection	IP00
Mounting position	any
Assembly instructions	In rows with zero spacing
Color	green
Standards/regulations	DIN EN 50178
	IEC 60664
	IEC 62103
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)
Pollution degree	2
Surge voltage category	III

### Connection data for connection 1

Connection name	Coil side
Number of connections	1
Connection method	IDC/FLK pin strip (2.54 mm)
Number of positions	50

### Connection data for connection 2

Connection name	Contact side
Number of connections	48

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## Technical data

### Connection data for connection 2

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Screw thread	M3
Stripping length	8 mm

### Connection data for connection 3

Connection name	Supply
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Screw thread	M3
Number of connections	4
Connection method	Screw connection
Stripping length	8 mm

### Connection data for connection 4

Connection name	Connection for extension module
Number of connections	1
Connection method	IDC/FLK pin strip (2.54 mm)
Number of positions	20

### Supported controller

Corresponding control	SIEMENS S7-400
Corresponding I/O card	6ES7 422-1BL00-0AA0
	6ES7 422-7BL00-0AB0
Corresponding control	ALLEN-BRADLEY ControlLogix
Corresponding I/O card	1756-OB32
Corresponding control	ALLEN-BRADLEY PLC 5
Corresponding I/O card	1771 OBN
Corresponding control	HONEYWELL PlantScape
Corresponding I/O card	TC-ODD 321
Corresponding control	MITSUBISHI MELSEC Q
Corresponding I/O card	QY81P
Corresponding control	Schneider Electric MODICON TSX QUANTUM

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## Technical data

### Supported controller

Corresponding I/O card	DDO 353
Corresponding control	SIEMENS S7-300 / ET 200 M
Corresponding I/O card	6ES7 322-1BL00-0AA0
Corresponding control	GE-FANUC RX3i
Corresponding I/O card	IC694MDL754

## Classifications

### eCl@ss

eCl@ss 4.0	27371102
eCl@ss 4.1	27371102
eCl@ss 5.0	27371001
eCl@ss 5.1	27371001
eCl@ss 6.0	27371001
eCl@ss 7.0	27371001

### ETIM

ETIM 2.0	EC001437
ETIM 3.0	EC001437
ETIM 4.0	EC001437
ETIM 5.0	EC001437

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121515
UNSPSC 11	39121515
UNSPSC 12.01	39121515
UNSPSC 13.2	39121515

## Approvals

### Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals


Approvals submitted

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### Approvals

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#### Approval details

UL Listed 

cUL Listed 

EAC

cULus Listed 

### Accessories

#### Accessories

##### Single relay

Single relay - REL-MR- 24DC/21HC - 2961312



Plug-in miniature power relay, with power contact for high continuous currents, 1 PDT, input voltage 24 V DC

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#### Additional products

Active module - UMK-16 RELS/KSR-G24/21/E/PLC - 2974891



VARIOFACE output extension module, with plug-in bases for 16 miniature relays, 1 PDT each, for 24 V DC (without relays)

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### Drawings

# Active module - UMK-16 RELS/KSR-G24/21/PLC - 2974901

Circuit diagram

