

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

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

### Your advantages

- ✓ 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                                 | <br>4 017918 088996 |
| GTIN                                 | 4017918088996                                                                                           |
| Weight per Piece (excluding packing) | 4.400 g                                                                                                 |
| Custom tariff number                 | 85364190                                                                                                |
| Country of origin                    | Germany                                                                                                 |
| Note                                 | Made to Order (non-returnable)                                                                          |

### Technical data

#### Note

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

#### 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 |

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## Technical data

### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP00 |
|----------------------|------|

### 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                  | 4 A         |
| Status display                               | Yes         |
| Error detection (line break / short-circuit) | no          |

### General

|                         |                                    |
|-------------------------|------------------------------------|
| No. of channels         | 16                                 |
| Compatible components   | Miniature relay, REL-MR- 24DC/21HC |
| With components         | no                                 |
| Mechanical service life | $3 \times 10^7$ cycles             |
| Operating mode          | 100% operating factor              |
| Mounting position       | any                                |
| Assembly instructions   | In rows with zero spacing          |
| Color                   | green                              |

### Connection data

|                       |                   |
|-----------------------|-------------------|
| Connection name       | Coil side         |
| Connection method     | IDC/FLK pin strip |
| Number of connections | 1                 |
| Number of positions   | 20                |
| Pitch                 | 2.54 mm           |

### Connection data 2

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection name                  | Contact side                                |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 24                                          |
| Conductor cross section solid    | 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> |

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### Technical data

#### Connection data 2

|                             |           |
|-----------------------------|-----------|
| Conductor cross section AWG | 24 ... 12 |
|-----------------------------|-----------|

#### Connection data 3

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection name                  | Supply                                      |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 4                                           |
| Conductor cross section solid    | 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                                   |

#### Supported controller

|                     |                             |
|---------------------|-----------------------------|
| Controller          | GE-FANUC RX3i               |
| - suitable I/O card | IC694MDL754                 |
| Controller          | HONEYWELL Experion PKS C200 |
| - suitable I/O card | TC-ODD 321                  |

#### Standards and Regulations

|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Standards/regulations    | DIN EN 50178                                                                                   |
|                          | IEC 60664                                                                                      |
| 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                                                                                              |
| Overvoltage category     | III                                                                                            |

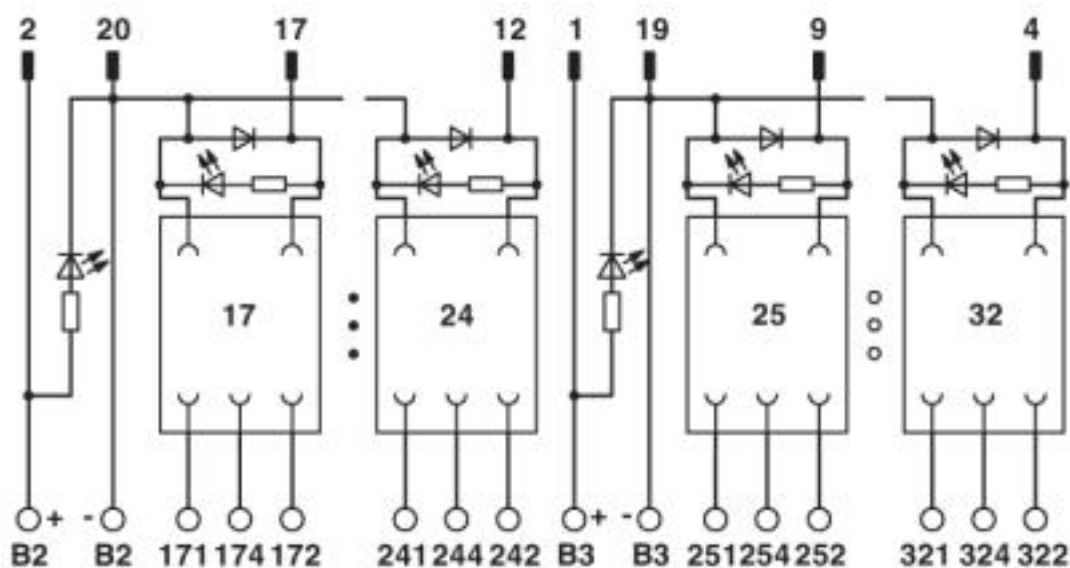
#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

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

Circuit diagram



### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371000 |
| eCl@ss 5.1 | 27371000 |
| eCl@ss 6.0 | 27371000 |
| eCl@ss 7.0 | 27141152 |
| eCl@ss 8.0 | 27141152 |
| eCl@ss 9.0 | 27141152 |

ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002780 |
| ETIM 6.0 | EC002780 |
| ETIM 7.0 | EC002780 |

UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

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### Approvals

#### Approvals

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#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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#### Ex Approvals

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### Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm>

FILE E 238705

EAC



RU C-  
DE.A\*30.B.01742

cULus Listed



### Accessories

#### Accessories

#### Retaining bracket

Retaining bracket - SIM-ERSN-HB-MR - 2271471



Retainer, for miniature relay

#### Single relay

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

### Accessories

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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### Necessary add-on products

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



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