

## 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)

### Product Features

- ✓ 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 |
| Weight per Piece (excluding packing) | 468.1 GRM   |
| 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 |
|-------------------------|---|

#### Dimensions

|        |        |
|--------|--------|
| Width  | 259 mm |
| Height | 77 mm  |
| Depth  | 59 mm  |

#### Ambient conditions

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## Technical data

### Ambient conditions

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

### 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  |
| Degree of protection     | IP20   |
| 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

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### Technical data

#### 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   | 20                          |

#### Connection data for connection 2

|  |                     |
|--|---------------------|
| Connection name                        | Contact side        |
| Number of connections                  | 24                  |
| 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                |

#### Supported controller

|                        |                      |
|------------------------|----------------------|
| Corresponding control  | GE-FANUC RX3i        |
| Corresponding I/O card | IC694MDL754          |
| Corresponding control  | HONEYWELL PlantScape |
| Corresponding I/O card | TC-ODD 321           |

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## 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 |
| eCl@ss 8.0 | 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

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#### Approvals

UL Listed / GOST / cUL Listed / cULus Listed

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#### Ex Approvals

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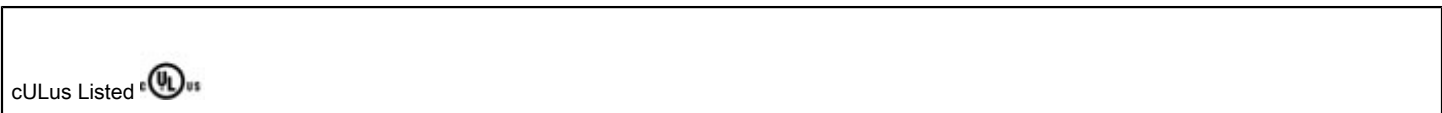
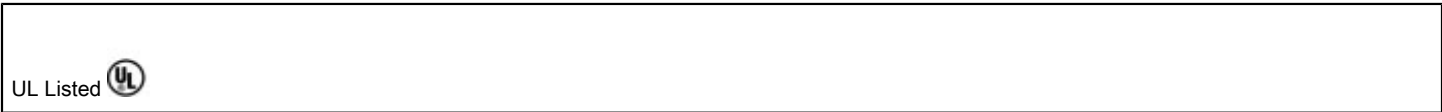
Approvals submitted

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### Approval details

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## Approvals



## Drawings

Circuit diagram

