

# 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)

## 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

|                  |               |
|------------------|---------------|
| package_quantity | 1             |
| GTIN             | 4017918089009 |

## 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 |

## 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             |

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## Technical data

### Output data

|   |             |
|---|-------------|
| <b>Contact type</b>                                 | 1 PDT       |
| <b>Maximum switching voltage</b>                    | 250 V AC/DC |
| <b>Limiting continuous current</b>                  | 4 A         |
| <b>Error detection (line break / short-circuit)</b> | no          |

### General

|   |                                    |
|---|------------------------------------|
| <b>No. of channels</b>                          | 16                                 |
| <b>No. of channels</b>                          | 32                                 |
| <b>Compatible components</b>                    | Miniature relay, REL-MR- 24DC/21HC |
| <b>With components</b>                          | No                                 |
| <b>Test voltage relay winding/relay contact</b> | 2.5 kV AC                          |
| <b>Standards/specifications</b>                 | IEC 60664 DIN EN 50178 IEC 62103   |
| <b>Mounting position</b>                        | Any                                |
| <b>Assembly instructions</b>                    | In rows with zero spacing          |
| <b>Pollution degree</b>                         | 2                                  |
| <b>Surge voltage category</b>                   | III                                |
| <b>Housing insulation material</b>              | PVC, side panel PA non-reinforced, |
| <b>Color</b>                                    | green                              |

### Connection data for connection 1

|   |                     |
|---|---------------------|
| <b>Connection name</b>                        | Output              |
| <b>Number of connections</b>                  | 52                  |
| <b>Connection method</b>                      | Screw connection    |
| <b>Number of positions</b>                    | 3                   |
| <b>Conductor cross section stranded min.</b>  | 0.2 mm <sup>2</sup> |
| <b>Conductor cross section stranded max.</b>  | 2.5 mm <sup>2</sup> |
| <b>Conductor cross section solid min.</b>     | 0.2 mm <sup>2</sup> |
| <b>Conductor cross section solid max.</b>     | 4 mm <sup>2</sup>   |
| <b>Conductor cross section AWG/kcmil min.</b> | 24                  |
| <b>Conductor cross section AWG/kcmil max</b>  | 12                  |
| <b>Screw thread</b>                           | M3                  |
| <b>Stripping length</b>                       | 8 mm                |

### Connection data for connection 2

|                              |                             |
|------------------------------|-----------------------------|
| <b>Connection name</b>       | Input                       |
| <b>Number of connections</b> | 2                           |
| <b>Connection method</b>     | IDC/FLK pin strip (2.54 mm) |
| <b>Number of positions</b>   | 50                          |

### Supported controller

|                               |                            |
|-------------------------------|----------------------------|
| <b>Corresponding control</b>  | SIEMENS S7-400             |
| <b>Corresponding I/O card</b> | 6ES7 422-1BL00-0AA0        |
| <b>Corresponding I/O card</b> | 6ES7 422-7BL00-0AB0        |
| <b>Corresponding control</b>  | ALLEN-BRADLEY ControlLogix |

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## Technical data

### Supported controller

|                        |  |
|------------------------|--|
| 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 |
| 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 |
| 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

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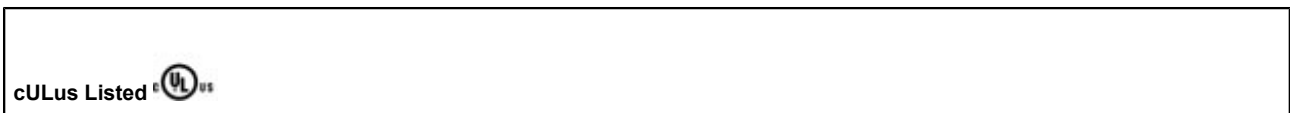
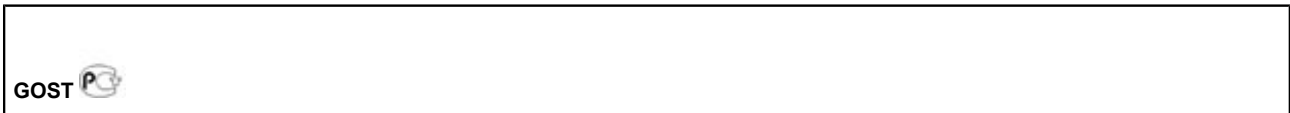
UL Listed / GOST / cUL Listed / cULus Listed /

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approvals

Approval details



## Drawings

Circuit diagram

