

## Active module - UMK-16 RM/KSR-G 24/21/PLC - 2979498

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VARIOFACE output module, with 16 miniature relays, 1 PDT each, plugged, for 24 V DC (basic module, including 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

RoHS



### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 017918 130343 |
| GTIN         | 4017918130343                                                                                           |

### 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 |
| Degree of protection                    | IP00             |

#### Input data

|                             |         |
|-----------------------------|---------|
| Nominal input voltage $U_N$ | 24 V DC |
|-----------------------------|---------|

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## Technical data

### Input data

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1                 |
| Type of protection                        | Free-wheeling diode         |
| Protective circuit/component              | Damping diode               |
| Type of protection                        | Reverse polarity protection |
| Protective circuit/component              | Polarity protection 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                               |
| Min. switching current                | 10 mA                             |
| Interrupting rating (ohmic load) max. | 120 W (24 V DC, $\tau = 0$ ms)    |
|                                       | 58 W (48 V DC, $\tau = 0$ ms)     |
|                                       | 48 W (60 V, $\tau = 0$ ms)        |
|                                       | 50 W (110 V DC, $\tau = 0$ ms)    |
|                                       | 80 W (220 V DC, $\tau = 0$ ms)    |
|                                       | 1250 VA (250 V AC, $\tau = 0$ ms) |

### General

|                         |                                    |
|-------------------------|------------------------------------|
| No. of channels         | 16                                 |
|                         | 32                                 |
| Compatible components   | Miniature relay, REL-MR- 24DC/21HC |
| With components         | yes                                |
| 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       | Controller level  |
| Connection method     | IDC/FLK pin strip |
| Number of connections | 1                 |
| Number of positions   | 50                |
| Pitch                 | 2.54 mm           |

### Connection data 2

|                   |                  |
|-------------------|------------------|
| Connection name   | Field level      |
| Connection method | Screw connection |
| Stripping length  | 8 mm             |
| Screw thread      | M3               |

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### Technical data

#### Connection data 2

|                                  |                     |
|----------------------------------|---------------------|
| Number of connections            | 48                  |
| Conductor cross section solid    | 0.2 mm² ... 4 mm²   |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| 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 mm² ... 4 mm²   |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG      | 24 ... 12           |

#### Supported controller

|                     |                                        |
|---------------------|----------------------------------------|
| Controller          | SIEMENS S7-1500                        |
| - suitable I/O card | 6ES7 522-1BL00-0AB0                    |
|                     | 6ES7 522-1BL01-0AB0                    |
| Controller          | SIEMENS S7-400                         |
| - suitable I/O card | 6ES7 422-1BL00-0AA0                    |
|                     | 6ES7 422-7BL00-0AB0                    |
| Controller          | ALLEN-BRADLEY PLC 5                    |
| - suitable I/O card | 1771 OBN                               |
| Controller          | Emerson DeltaV                         |
| - suitable I/O card | VE4002S1T2B6                           |
| Controller          | GE-FANUC RX3i                          |
| - suitable I/O card | IC694MDL754                            |
| Controller          | HONEYWELL Experion PKS C200            |
| - suitable I/O card | TC-ODD 321                             |
| Controller          | MITSUBISHI MELSEC L                    |
| - suitable I/O card | LY41PT1P                               |
|                     | LY42PT1P                               |
|                     | QY82P                                  |
| Controller          | MITSUBISHI MELSEC Q                    |
| - suitable I/O card | QY81P                                  |
| Controller          | Schneider Electric Modicon TSX QUANTUM |
| - suitable I/O card | DDO 353                                |
| Controller          | SIEMENS S7-300 / ET 200 M              |
| - suitable I/O card | 6ES7 322-1BL00-0AA0                    |

#### Standards and Regulations

## Active module - UMK-16 RM/KSR-G 24/21/PLC - 2979498

### Technical data

#### Standards and Regulations

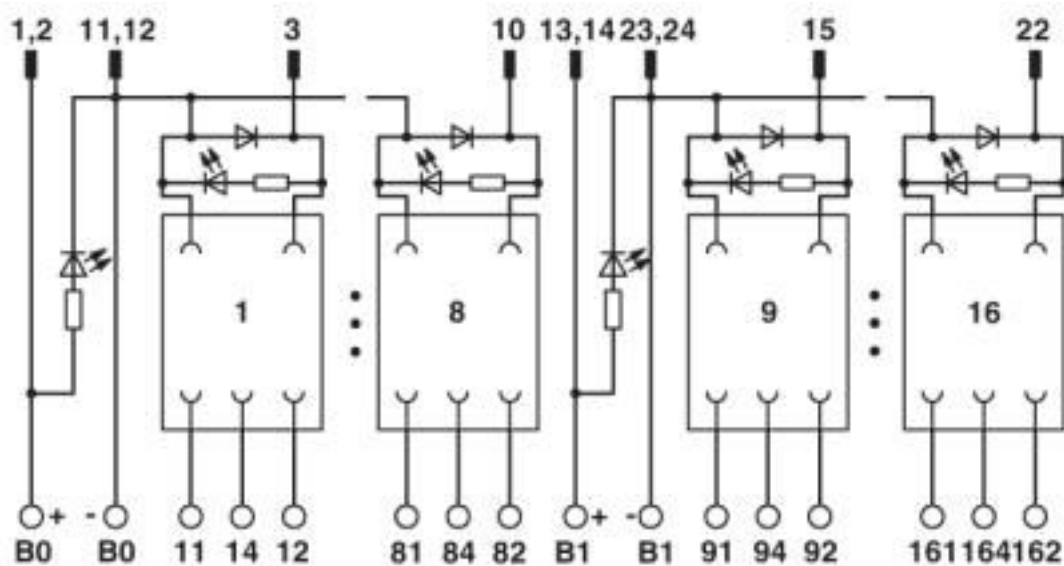
|                          |                                                                                                |
|--------------------------|------------------------------------------------------------------------------------------------|
| Standards/regulations    | DIN EN 50178                                                                                   |
|                          | 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 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

Circuit diagram



### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141152 |
| 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 |

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### Classifications

#### eCl@ss

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

### 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 |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|-----------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|            |                                                                                     |                                                                                                                                                       |               |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| cUL Listed |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 238705 |
|------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

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### Approvals

EAC



RU\*DE\*08.B.01841/19

cULus Listed



### Accessories

#### Accessories

##### Retaining bracket

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



Retainer, for miniature relay

#### 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

### Additional products

Active module - UMK-16 RM/KSR-G 24/21/E/PLC - 2979508



VARIOFACE output extension module, with 16 miniature relays, 1 PDT each, plugged, for 24 V DC (including relays)

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