

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

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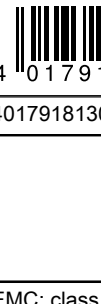
VARIOFACE output extension module, with 16 miniature relays, 1 PDT each, plugged, for 24 V DC (including relays)

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



Key Commercial Data

| | |
|--------------|--|
| Packing unit | 1 pc |
| GTIN |  4 017918 130336 |
| GTIN | 4017918130336 |

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 |
| Status display | Yes |

General

| | |
|-------------------------|------------------------------------|
| No. of channels | 16 |
| Compatible components | Miniature relay, REL-MR- 24DC/21HC |
| With components | yes |
| Mechanical service life | 3×10^7 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 | 20 |
| Pitch | 2.54 mm |

Connection data 2

| | |
|----------------------------------|---|
| Connection name | Field level |
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of connections | 48 |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

Connection data 3

| | |
|-----------------|--------|
| Connection name | Supply |
|-----------------|--------|

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Technical data

Connection data 3

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of connections | 4 |
| Conductor cross section solid | 0.2 mm ² ... 4 mm ² |
| Conductor cross section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross section AWG | 24 ... 12 |

Connection data 4

| | |
|-----------------------|-----------------------------|
| Connection name | Connection for basic module |
| Connection method | IDC/FLK pin strip |
| Number of connections | 1 |
| Number of positions | 20 |
| Pitch | 2.54 mm |

Supported controller

| | |
|---------------------|-----------------------------|
| Controller | SIEMENS S7-1500 |
| - suitable I/O card | 6ES7 522-1BL00-0AB0 |
| | 6ES7 522-1BL01-0AB0 |
| Controller | Emerson DeltaV |
| - suitable I/O card | VE4002S1T2B6 |
| Controller | ALLEN-BRADLEY PLC 5 |
| - suitable I/O card | 1771 OBN |
| 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 |

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 |

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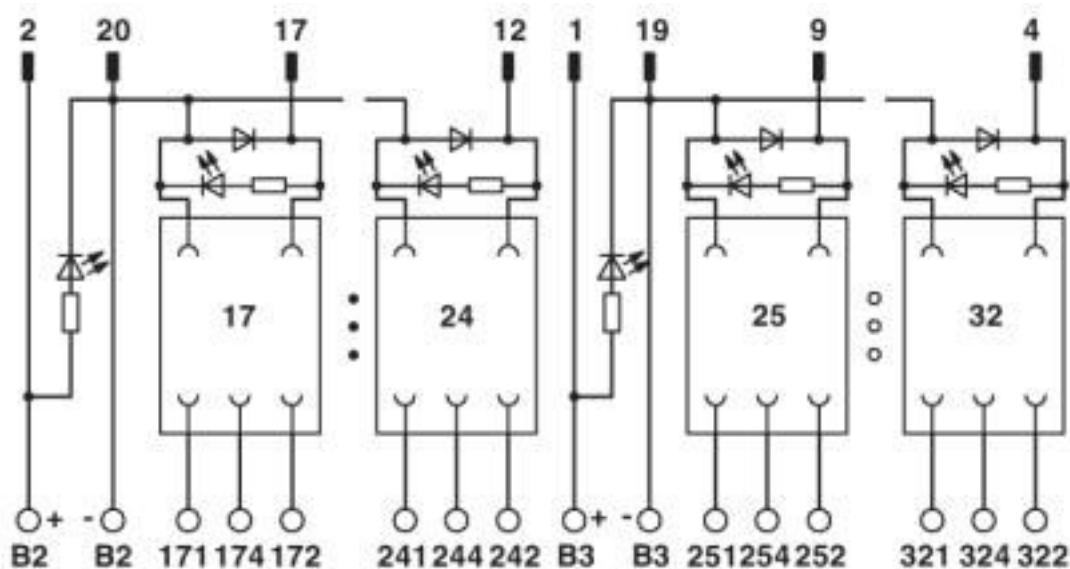
Technical data

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 |
| 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 |

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Classifications

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

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

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*DE*08.B.01841/19 |
|-----|--|---------------------|

| | |
|--------------|--|
| cULus Listed | |
|--------------|--|

Accessories

Accessories

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

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

Necessary add-on products

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



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

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