

# UMK- 4 RM 24DC - Multiple relay module



2972835

<https://www.phoenixcontact.com/in/products/2972835>

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VARIOFACE module, for 4 plug-in miniature relays or miniature optocouplers, with LED, 24 V DC input voltage

## Commercial Data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2972835                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to Order (non-returnable) |
| Sales Key                            | CK6                            |
| Product Key                          | CK6164                         |
| Catalog Page                         | Page 550 (C-7-2013)            |
| GTIN                                 | 4017918088798                  |
| Weight per Piece (including packing) | 154.6 g                        |
| Weight per Piece (excluding packing) | 111.95 g                       |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

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## Technical Data

### Notes

#### Utilization restriction

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

### Product properties

|                       |  |
|-----------------------|--|
| Product type          | Multi-channel relay module                 |
| No. of channels       | 4  |
| Compatible components | Miniature relays or miniature optocouplers |
| With components       | no   |

#### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree     | 2   |

### Electrical properties

|                          |  |
|--------------------------|--|
| No. of channels          | 4  |
| Rated insulation voltage | 260 V AC   |
| Rated surge voltage      | 4 kV (Basic insulation between output contact current paths)<br>6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths) |

### 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)   |
| Protective circuit                        | Freewheeling diode; Freewheeling diode<br>Reverse polarity protection; Polarity protection diode |
| Operating voltage display                 | Yellow LED   |
| Status display/channel                    | Yellow LED   |

### Output data

|                       |  |
|-----------------------|--|
| Compatible components | Miniature relays or miniature optocouplers |
|-----------------------|--|

#### Switching

|  |                      |
|--|----------------------|
| Contact type                                 | 1 changeover contact |
| Maximum switching voltage                    | 250 V AC/DC          |
| Limiting continuous current                  | 5 A                  |
| Maximum inrush current                       | 8 A                  |
| Error detection (line break / short-circuit) | no                   |

### Connection data

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## Input

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Screw thread                     | M3  |
| Number of connections            | 2   |
| Number of positions              | 8   |
| Conductor cross section rigid    | 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                                   |

## Output

|                                  |   |
|----------------------------------|---|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Number of connections            | 12  |
| Number of positions              | 3   |
| Conductor cross section rigid    | 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                                   |

## Signaling

|                        |     |
|------------------------|-----|
| Status display present | Yes |
|------------------------|-----|

## Dimensions

|        |         |
|--------|---------|
| Width  | 67.5 mm |
| Height | 77 mm   |
| Depth  | 59 mm   |

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Degree of protection                    | IP00             |
| Ambient temperature (operation)         | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

## Standards and regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | DIN EN 50178 |
|                       | IEC 60664    |

## Mounting

|                   |                   |
|-------------------|-------------------|
| Mounting type     | DIN rail mounting |
| Mounting position | any               |



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## Classifications

### ETIM

ETIM 7.0

EC001456

### UNSPSC

UNSPSC 21.0

39122335

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## Environmental Product Compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |
|------------|--|

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## Accessories

### REL-MR- 24DC/21HC - Single relay

2961312

<https://www.phoenixcontact.com/in/products/2961312>



Plug-in miniature power relay, with power contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

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### REL-MR- 24DC/21HC AU - Single relay

2961545

<https://www.phoenixcontact.com/in/products/2961545>



Plug-in miniature power relay, with multi-layer gold contact for high continuous currents, 1 changeover contact, input voltage 24 V DC

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