

UMK-16 RM 12DC/MKDS - Multiple relay module



2972987

<https://www.phoenixcontact.com/us/products/2972987>

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VARIOFACE module, for 16 plug-in miniature relays or miniature optocouplers, with LED, 12 V DC input voltage

The figure shows a version for 16 pluggable miniature switching relays or miniature optocouplers

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2972987 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C460 |
| Product key | DK6164 |
| GTIN | 4017918088903 |
| Weight per piece (including packing) | 487.2 g |
| Weight per piece (excluding packing) | 394.52 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 | 16 |
| Compatible components | Miniature relays or miniature optocouplers |
| With components | no |

Insulation characteristics

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

Electrical properties

| | |
|--------------------------|--|
| 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) |

Input data

| | |
|-----------------------------|--|
| Nominal input voltage U_N | 12 V DC $\pm 10\%$ |
| Protective circuit | Freewheeling diode; Freewheeling diode 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 switching type | 1 changeover contact |
| Maximum switching voltage | 250 V AC |
| Limiting continuous current | 5 A |
| Interrupting rating (ohmic load) max. | 1250 VA (for 250 V AC) |
| Error detection (line break / short-circuit) | no |

Connection data

Input

| | |
|-------------------|------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |

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| | |
|----------------------------------|---|
| Screw thread | M3 |
| Number of connections | 1 |
| Number of positions | 20 |
| Conductor cross-section rigid | 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 |

Output

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of connections | 48 |
| Number of positions | 3 |
| Conductor cross-section rigid | 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 |

Signaling

| | |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

Dimensions

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

Material specifications

| | |
|-------|------------------|
| Color | green (RAL 6021) |
|-------|------------------|

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP00 |
| Ambient temperature (operation) | -20 °C ... 50 °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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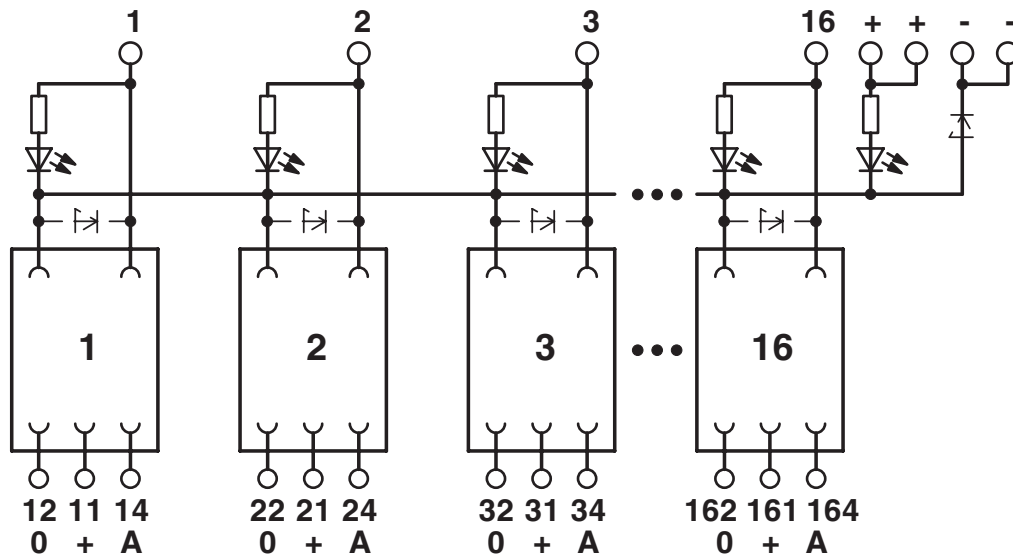


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Drawings

Circuit diagram



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Environmental product compliance

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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