

UM 45- 8RM/MR-G24/1/PLC - Active module



2962900

<https://www.phoenixcontact.com/us/products/2962900>

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VARIOFACE COMPACT LINE, output module with 8 miniature relays, 1 N/O contact each, plugged, for 24 V DC (incl. relay)

Your advantages

- Low depth of just 45 mm
- Universal applications from 1 mA to 3 A continuous current thanks to 2-layer double contact with hard gold plating
- LED status indicator per signal path and supply voltage
- Freewheeling and polarity protection diode for each signal path
- Plug-in miniature relays each with an N/O contact

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2962900 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | CK2171 |
| Catalog page | Page 556 (C-7-2015) |
| GTIN | 4017918087500 |
| Weight per piece (including packing) | 140.4 g |
| Weight per piece (excluding packing) | 107.27 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|-------------------------|--------------------------------|
| Product type | Interface module |
| No. of channels | 8 |
| Operating mode | 100% operating factor |
| Mechanical service life | 2x 10 ⁷ cycles |
| Compatible components | Miniature relay, REL-MR-G 24/1 |
| With components | yes |

Insulation characteristics

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

Electrical properties

| | |
|--------------------------|-------------------------|
| Rated insulation voltage | 300 V AC |
| Rated surge voltage | 4 kV (Basic insulation) |

Supported controller SIEMENS S7-400

| | |
|-------------------|--------------------|
| Suitable I/O card | 6ES7422-1BL00-0AA0 |
| | 6ES7422-7BL00-0AB0 |

Supported controller GE-FANUC 90-30

| | |
|-------------------|--------------|
| Suitable I/O card | IC693 MDL732 |
| | IC693 MDL740 |
| | IC693 MDL742 |

Supported controller ALLEN-BRADLEY ControlLogix

| | |
|-------------------|------------|
| Suitable I/O card | 1756-OB32 |
| | 1756-OB16E |

Supported controller ALLEN-BRADLEY PLC 5

| | |
|-------------------|----------|
| Suitable I/O card | 1771 OBN |
|-------------------|----------|

Supported controller ALLEN-BRADLEY SLC 500

| | |
|-------------------|------------|
| Suitable I/O card | 1746 OB16 |
| | 1746 OB 32 |

Supported controller HONEYWELL Experion PKS C200

| | |
|-------------------|------------|
| Suitable I/O card | TC-ODD 321 |
|-------------------|------------|

Supported controller MITSUBISHI MELSEC Q

| | |
|-------------------|-------|
| Suitable I/O card | QY81P |
| | QY82P |

Supported controller SIEMENS S7-300 / ET 200 M

| | |
|--|--------------|
| | CPU 313C-2DP |
|--|--------------|

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| | |
|-------------------|--------------------|
| Suitable I/O card | CPU 314C-2DP |
| | CPU 314C-2PtP |
| | 6ES7322-1BH01-0AA0 |
| | 6ES7322-1BL00-0AA0 |
| | 6ES7323-1BH01-0AA0 |
| | 6ES7323-1BL00-0AA0 |
| | CPU 313C |
| | CPU 313C-2PtP |

Supported controller ABB S800 I/O

| | |
|-------------------|-------|
| Suitable I/O card | DO810 |
| | DO840 |

Supported controller GE-FANUC RX3i

| | |
|-------------------|-------------|
| Suitable I/O card | IC694MDL754 |
|-------------------|-------------|

Supported controller MITSUBISHI MELSEC L

| | |
|-------------------|----------|
| Suitable I/O card | LY41PT1P |
| | LY42PT1P |

Input data

| | |
|---|--|
| Nominal input voltage U_N | 24 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.1 |
| Input voltage range | 19.2 V DC ... 26.4 V DC |
| Typical input current at U_N | 6.5 mA |
| Typical response time | 5 ms |
| Typical release time | 15 ms |
| Protective circuit | Freewheeling diode; Freewheeling diode |
| | Reverse polarity protection; Polarity protection diode |
| Operating voltage display | Green LED |
| Status display/channel | Yellow LED |

Output data

| | |
|-----------------------|--------------------------------|
| Compatible components | Miniature relay, REL-MR-G 24/1 |
|-----------------------|--------------------------------|

Switching

| | |
|-----------------------------|----------------------------------|
| Contact switching type | 1 N/O contact |
| Type of switch contact | Double contact |
| Contact material | AgNi, 5 μ m hard gold-plated |
| Maximum switching voltage | 250 V AC |
| | 125 V DC |
| Minimum switching voltage | 5 V |
| Limiting continuous current | 3 A |
| Maximum inrush current | 5 A |
| Min. switching current | 1 mA |
| | 72 W (24 V DC) |

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| | |
|---------------------------------------|-------------------|
| Interrupting rating (ohmic load) max. | 60 W (48 V DC) |
| | 50 W (60 V DC) |
| | 50 W (110 V DC) |
| | 750 VA (250 V AC) |

Connection data

Controller level

| | |
|-----------------------|-------------------|
| Connection method | IDC/FLK pin strip |
| Number of connections | 1 |
| Number of positions | 14 |
| Pitch | 2.54 mm |

Field level

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| Number of connections | 18 |
| Number of positions | 3 |
| Conductor cross section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 26 ... 14 |

Supply

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 6 mm |
| Screw thread | M3 |
| Number of connections | 1 |
| Number of positions | 2 |
| Conductor cross section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross section AWG | 26 ... 16 |

Signaling

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

Dimensions

| | |
|--------|---------|
| Width | 103 mm |
| Height | 45 mm |
| Depth | 50.5 mm |

Material specifications

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

Environmental and real-life conditions

Ambient conditions

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| | |
|---|------------------|
| Degree of protection | IP00 |
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

Standards and regulations

| | |
|-----------------------|----------------|
| Standards/regulations | EN 61010-2-201 |
| | IEC 60664 |

Mounting

| | |
|-----------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly instructions | in rows with zero spacing |
| Mounting position | any |

Notes

| | |
|---------|--|
| General | Observe the maximum switching capacity of the relays used |
| General | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
| General | The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value |
| General | The necessary requirements for insulation (basic insulation or reinforced insulation) from adjacent modules (in DIN-rail direction) must be realized by applying suitable measures (e. g., partition plates). |
| General | For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met. |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27141152 |
| ECLASS-12.0 | 27141152 |
| ECLASS-13.0 | 27141152 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002780 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| | Hexahydromethylphthalic anhydride |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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