

# UM-32 RM/RT-G24/21/PLC - Active module



2968373

<https://www.phoenixcontact.com/us/products/2968373>

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VARIOFACE output module, with 32 miniature relays, 1 changeover contact, plugged, for 24 V DC (including relays)

## Your advantages

- Narrow design width of just 80 mm (8 channels) or 271 mm (32 channels)
- LED status indicator per signal path and supply voltage
- Plug-in miniature relays, each with a changeover contact
- Freewheeling diode for each signal path

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2968373       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | C421          |
| Product key                          | DK2191        |
| GTIN                                 | 4017918917517 |
| Weight per piece (including packing) | 1,479.8 g     |
| Weight per piece (excluding packing) | 1,479.8 g     |
| Customs tariff number                | 85364190      |
| Country of origin                    | DE            |

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## Technical data

### Notes

|                    |                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | Observe the maximum switching power of the relays used                                                                                                                                                                                                                         |
| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.                                                                                                                                                                                            |
| Notes on operation | 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                                                                                           |
| Notes on operation | 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., divider plates).                                                                    |
| Notes on operation | 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. |

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| No. of channels         | 32                        |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 3x 10 <sup>7</sup> cycles |

#### Insulation characteristics

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

### Electrical properties

|                          |                                                                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rated insulation voltage | 300 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) |

#### Supported controller: SIEMENS S7-1500

|                   |                                          |
|-------------------|------------------------------------------|
| Suitable I/O card | 6ES7522-1BL00-0AB0<br>6ES7522-1BL01-0AB0 |
|-------------------|------------------------------------------|

#### Supported controller: SIEMENS S7-400

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

#### Supported controller: ALLEN-BRADLEY PLC 5

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

#### Supported controller: GE-FANUC RX3i

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

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Supported controller: HONEYWELL Experion PKS C200

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

Supported controller: MITSUBISHI MELSEC L

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

Supported controller: MITSUBISHI MELSEC Q

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

Supported controller: SCHNEIDER ELECTRIC Modicon TSX QUANTUM

|                   |         |
|-------------------|---------|
| Suitable I/O card | DDO 353 |
|-------------------|---------|

Supported controller: SIEMENS S7-300 / ET 200 M

|                   |                    |
|-------------------|--------------------|
| Suitable I/O card | 6ES7322-1BL00-0AA0 |
|-------------------|--------------------|

## Input data

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Nominal input voltage $U_N$               | 24 V DC                                |
| Input voltage range in reference to $U_N$ | 0.85 ... 1.1                           |
| Input voltage range                       | 20.4 V DC ... 26.4 V DC                |
| Typical input current at $U_N$            | 18 mA                                  |
| Typical response time                     | 8 ms                                   |
| Typical release time                      | 10 ms                                  |
| Protective circuit                        | Freewheeling diode; Freewheeling diode |
| Operating voltage display                 | Green LED                              |
| Status display/channel                    | Yellow LED                             |

## Output data

### Switching

|                                              |                        |
|----------------------------------------------|------------------------|
| Contact switching type                       | 1 changeover contact   |
| Type of switch contact                       | Single contact         |
| Contact material                             | AgNi                   |
| Maximum switching voltage                    | 250 V AC/DC            |
| Minimum switching voltage                    | 12 V AC/DC             |
| Limiting continuous current                  | 5 A                    |
| Min. switching current                       | 10 mA                  |
| Interrupting rating (ohmic load) max.        | 120 W (at 24 V DC)     |
|                                              | 58 W (at 48 V DC)      |
|                                              | 48 W (at 60 V DC)      |
|                                              | 50 W (at 110 V DC)     |
|                                              | 80 W (at 220 V DC)     |
|                                              | 1250 VA (for 250 V AC) |
| Error detection (line break / short-circuit) | no                     |

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## Connection data

### Controller level

|                       |                   |
|-----------------------|-------------------|
| Connection method     | IDC/FLK pin strip |
| Number of connections | 1                 |
| Number of positions   | 50                |
| Pitch                 | 2.54 mm           |

### Field level

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 96                                          |
| 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                                   |

### Supply

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm                                        |
| Screw thread                     | M3                                          |
| Number of connections            | 2                                           |
| 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  | 271.5 mm |
| Height | 125.5 mm |
| Depth  | 62.5 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

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

## Mounting

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

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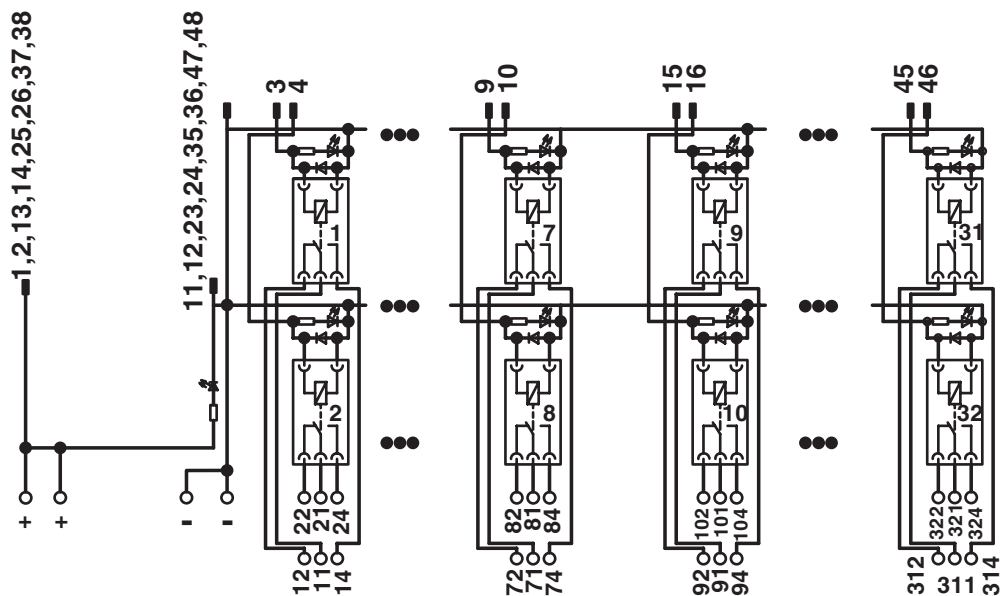
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## Drawings

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2968373>



**EAC**

Approval ID: RU\*DE\*08.B.01841/19

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 7(c)-I |

### 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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | d0a3ee56-3261-4834-b937-5eaffb749b68 |

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