

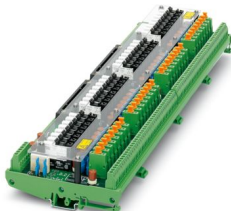
# UM-2KS50RM/32MR/SI/1/551/MT - Active module



2968564

<https://www.phoenixcontact.com/us/products/2968564>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



VARIOFACE output module, 32 channels for Yokogawa ADV 551, ADV 561 output modules.

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2968564                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C421                           |
| Product key                          | DK219N                         |
| GTIN                                 | 4046356458634                  |
| Weight per piece (including packing) | 1,459 g                        |
| Weight per piece (excluding packing) | 1,459 g                        |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Interface module               |
| No. of channels         | 32                             |
| Operating mode          | 100% operating factor          |
| Mechanical service life | approx. $2 \times 10^7$ cycles |

#### Insulation characteristics: Air clearances and creepage distances, input/output

|                      |                                       |
|----------------------|---------------------------------------|
| Insulation           | Safe isolation, reinforced insulation |
| Overvoltage category | III                                   |
| Pollution degree     | 2                                     |

#### Insulation characteristics: Air and creepage distances, output/output

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

### Electrical properties

#### Air clearances and creepage distances, input/output

|                          |                       |
|--------------------------|-----------------------|
| Rated insulation voltage | 300 V                 |
| Rated surge voltage      | 6 kV (1.2/50 $\mu$ s) |

#### Air and creepage distances, output/output

|                          |                       |
|--------------------------|-----------------------|
| Rated insulation voltage | 300 V                 |
| Rated surge voltage      | 4 kV (1.2/50 $\mu$ s) |

#### Supported controller YOKOGAWA CS3000 CentumVP

|                   |        |
|-------------------|--------|
| Suitable I/O card | ADV551 |
|                   | ADV561 |

#### Supported controller YOKOGAWA STARDOM

|                   |         |
|-------------------|---------|
| Suitable I/O card | NFDV551 |
|                   | NFDV561 |

### Input data

|                                           |                         |
|-------------------------------------------|-------------------------|
| Nominal input voltage $U_N$               | 24 V DC $\pm 10$ %      |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1             |
| Input voltage range                       | 21.6 V DC ... 26.4 V DC |
| Typical input current at $U_N$            | 9 mA (K1 – K32)         |
| Typical response time                     | 5 ms (K1 – K32)         |
|                                           | 5 ms (K33)              |
| Typical release time                      | 7 ms (K1 – K32)         |
|                                           | 5 ms (K33)              |
| Operating voltage display                 | Green LED               |

# UM-2KS50RM/32MR/SI/1/551/MT - Active module



2968564

<https://www.phoenixcontact.com/us/products/2968564>

|                        |            |
|------------------------|------------|
| Status display/channel | Yellow LED |
|------------------------|------------|

## Output data

### Switching

|                                       |                          |
|---------------------------------------|--------------------------|
| Contact switching type                | 1 changeover contact     |
| Type of switch contact                | Single contact           |
| Contact material                      | AgSnO <sub>2</sub>       |
| Maximum switching voltage             | 250 V AC                 |
|                                       | 63 V DC                  |
| Minimum switching voltage             | 12 V AC/DC               |
| Limiting continuous current           | 2.8 A (observe derating) |
| Min. switching current                | 10 mA                    |
| Interrupting rating (ohmic load) max. | 67 W (24 V DC)           |
|                                       | 20 W (48 V DC)           |
|                                       | 18 W (60 V DC)           |
|                                       | 700 VA (250 V AC)        |
| Output fuse                           | 4 A (per channel)        |

## Connection data

### Field level

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection with disconnect knife      |
| Number of connections            | 1                                           |
| 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                                   |

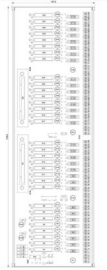
### Controller level

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Connection method     | Yokogawa, KS compatible                                      |
| Number of connections | 2                                                            |
| Number of positions   | 50                                                           |
| Note                  | Usable system cables: Phoenix Contact YUC50, Yokogawa AKB331 |
| Tightening torque     | 0.5 Nm                                                       |

## Signaling

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

## Dimensions

|                     |  |                                                                                   |
|---------------------|--|-----------------------------------------------------------------------------------|
| Dimensional drawing |  |  |
| Width               |  | 419.5 mm                                                                          |
| Height              |  | 127.5 mm                                                                          |
| Depth               |  | 57 mm                                                                             |

## Environmental and real-life conditions

### Ambient conditions

|                                              |                                |
|----------------------------------------------|--------------------------------|
| Degree of protection                         | IP00                           |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -15 °C ... 50 °C               |
| Ambient temperature (storage/transport)      | -20 °C ... 70 °C               |

## Standards and regulations

### Air clearances and creepage distances, input/output

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

### Air and creepage distances, output/output

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

## Mounting

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

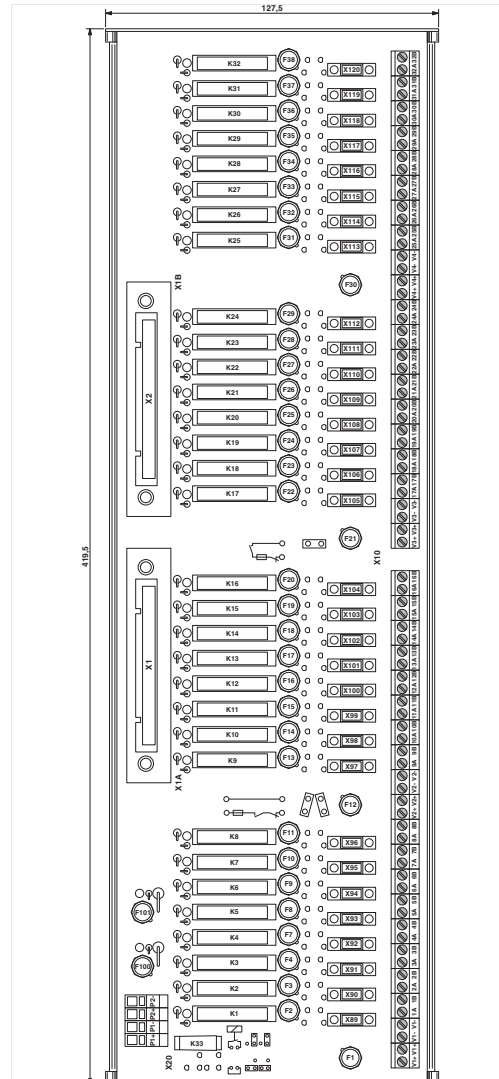
## Notes

|                    |                                                                                                                                                                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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., partition 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. |



<https://www.phoenixcontact.com/us/products/2968564>

## Dimensional drawing



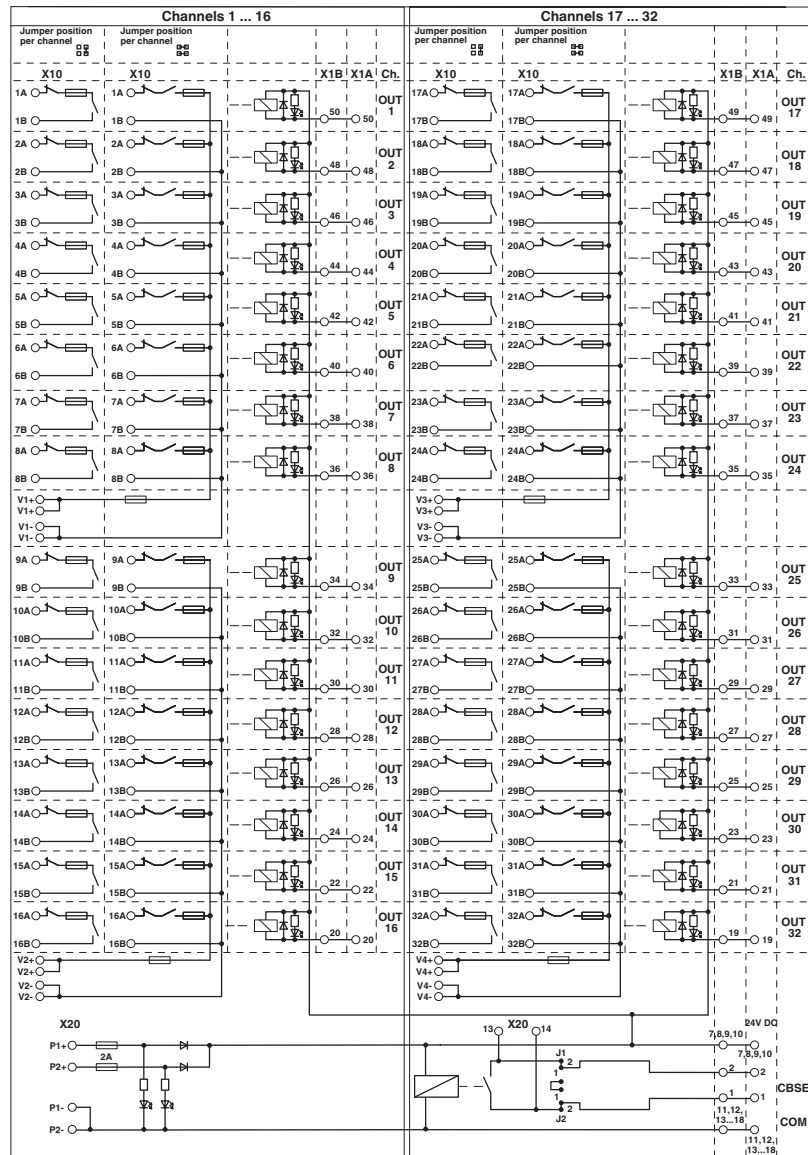
# UM-2KS50RM/32MR/SI/1/551/MT - Active module



2968564

<https://www.phoenixcontact.com/us/products/2968564>

## Circuit diagram



# UM-2KS50RM/32MR/SI/1/551/MT - Active module



2968564

<https://www.phoenixcontact.com/us/products/2968564>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2968564>



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

|                                                                                   |                                     |                       |                   |                             |
|-----------------------------------------------------------------------------------|-------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>CSA</b><br>Approval ID: LR 13631 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$               | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                             |                                     |                       |                   |                             |
|                                                                                   | 250 V                               | 1.2 A                 | -                 | -                           |

# UM-2KS50RM/32MR/SI/1/551/MT - Active module



2968564

<https://www.phoenixcontact.com/us/products/2968564>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## Environmental product compliance

### EU RoHS

|                                         |            |
|-----------------------------------------|------------|
| Fulfills EU RoHS substance requirements | Yes        |
| Exemption                               | 6(c), 7(a) |

### 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.) | Hexahydromethylphthalic anhydride(CAS: n/a) |
|                                     | Lead(CAS: 7439-92-1)                        |
| SCIP                                | 57a66da0-cb20-41b7-89ee-65cfdeb91614        |