# UM-KS50/32-MR/21/ADV551/SO207 - Relay module

2311108

https://www.phoenixcontact.com/us/products/2311108

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32-channel output relay module (1 N/O contact, optionally non-isolated) with spring-cage connection, fuse (2 AT), and 50-pos. system connection. Suitable for the Yokogawa ADV 551 and ADV 561 cards.

## Commercial data

| | |
|---|---|
| Item number | 2311108 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C421 |
| Product key | DK2A9N |
| GTIN | 4046356145909 |
| Weight per piece (including packing) | 896.3 g |
| Weight per piece (excluding packing) | 871 g |
| Customs tariff number | 85364190 |
| Country of origin | DE |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Interface module |
| No. of channels | 32 |

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 µs) |

Air and creepage distances, output/output

| | |
|---|---|
| Rated insulation voltage | 260 V |
| Rated surge voltage | 4 kV (1.2/50 µs) |

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 |
| 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 $U_N$ | 9 mA (per channel) |
| Protective circuit | Damping diode, polarity protection; Damping diode, polarity protection diode |
| | Reverse polarity protection; Polarity protection diode |
| Operating voltage display | Green LED |
| Status display/channel | Yellow LED |

### Output data

Switching

| | |
|---|---|
| Contact switching type | 1 N/O contact |
| Type of switch contact | Single contact |
| Contact material | AgSnO |
| Maximum switching voltage | 230 V AC |
| Limiting continuous current | 2 A (Per channel, plug-in fuse (IEC 6012-3/IV, 2AT); for 100% ED 1 A per channel) |
| Maximum inrush current | 8 A (Supply, (V1+, V2+), pluggable fuse (UL 248-14, 250 V, 8AT)) |
| Min. switching current | 100 mA |
| Interrupting rating (ohmic load) max. | 48 W (at 24 V DC) |
| | 20 W (at 48 V DC) |
| | 18 W (at 60 V DC) |
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 500 VA (for 250 V AC) |

## Connection data

Field level

| | |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross-section rigid | 0.2 mm² ... 2.5 mm² |
| Conductor cross-section flexible | 0.2 mm² ... 1.5 mm² |
| Conductor cross-section AWG | 24 ... 14 |

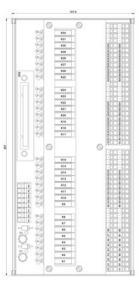
Controller level

| | |
|---|---|
| Connection method | Yokogawa, KS compatible |
| Number of connections | 1 |
| 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 | 267 mm |
| Height | 127.5 mm |
| Depth | 56.5 mm |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP00 |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |
| Altitude | ≤ 2000 m |

## 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

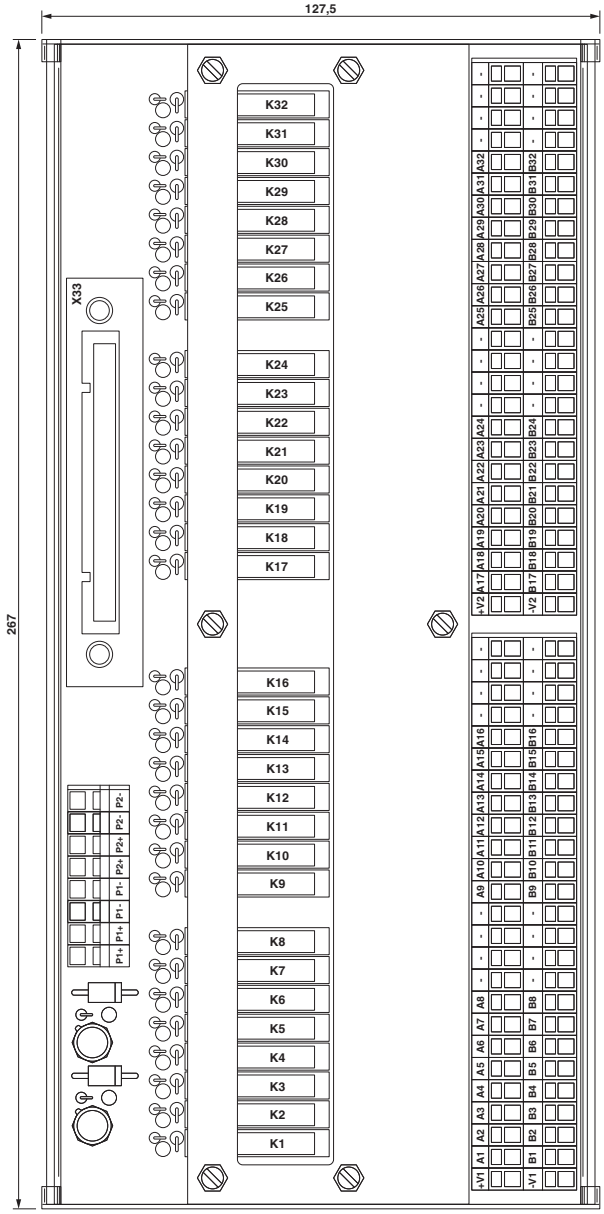
| | |
|---|---|
| Mounting type | DIN rail mounting |
| Mounting position | any |

## Notes

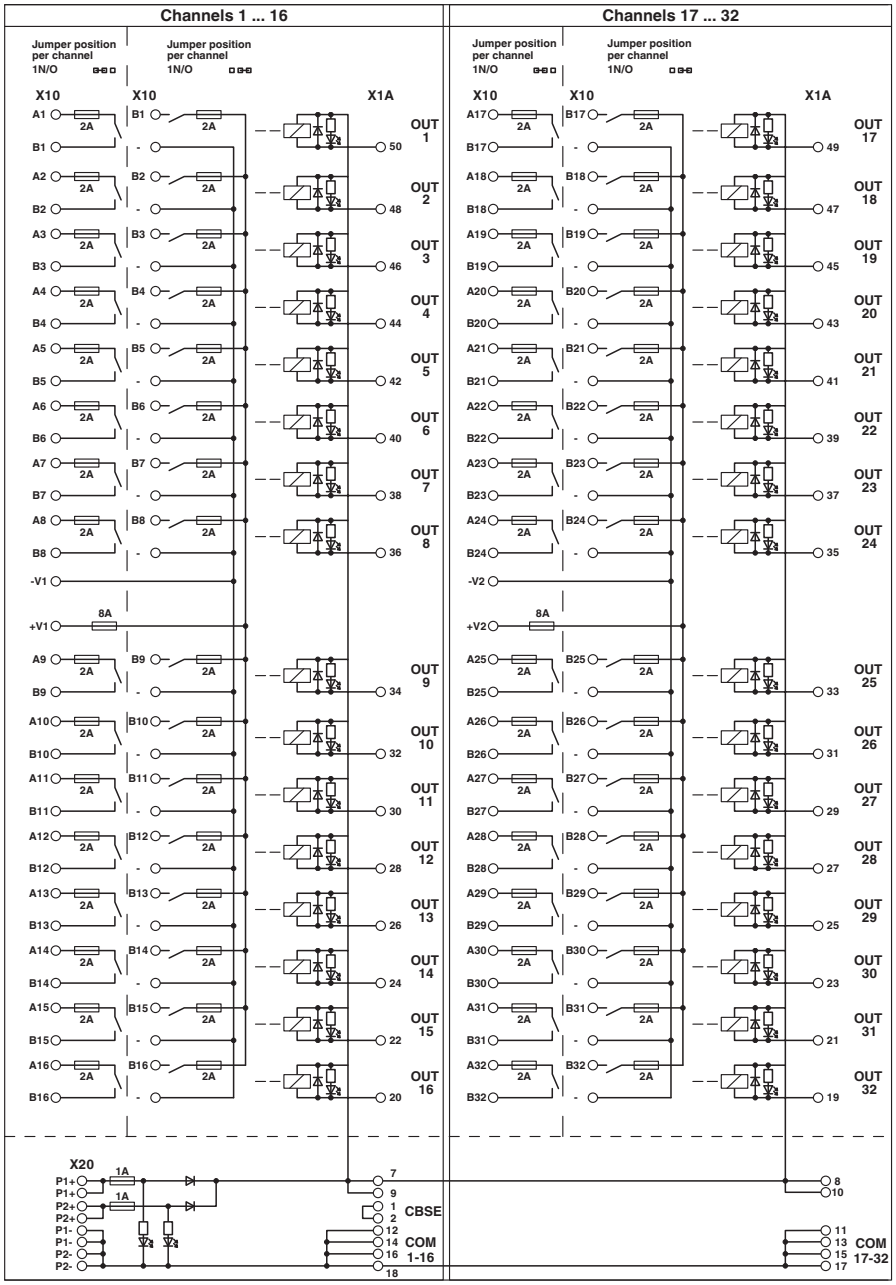
| | |
|---|---|
| Notes on operation | Observe the maximum switching power of the relays used |
| Notes on operation | Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch. |
| Notes on operation | The outputs are not suitable for switching different line conductors. The 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., 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. |

## Drawings

Dimensional drawing



## Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2311108

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

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## Environmental product compliance

EU RoHS

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|---|---|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 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 | 005b7ff0-10d4-4dd7-8e6c-85e59f1c601b |


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