

# UM-2KS50/DO32REL/CS/SO180 - Active module



2311373

<https://www.phoenixcontact.com/us/products/2311373>

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32-channel relay module with a screw connection and redundant voltage supply. Suitable for Yokogawa ADV551 and ADV561 cards.

## Commercial data

Item number	2311373
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK219N
GTIN	4046356317740
Weight per piece (including packing)	831.2 g
Weight per piece (excluding packing)	831.2 g
Customs tariff number	85389099
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 $\mu$ s)

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

Rated insulation voltage	260 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
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 (per relay)
Protective circuit	Damping diode, polarity protection; Damping diode, polarity protection diode
Status display/channel	Yellow LED

### Output data

#### Switching

Contact switching type	1 N/O contact
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Contact material	AgSnO, hard gold-plated
Maximum switching voltage	250 V AC
Limiting continuous current	50 mA
Min. switching current	10 mA
Interrupting rating (ohmic load) max.	1.2 W (at 24 V DC)

Switching: when the gold layer is destroyed

Note	the following values are applicable if a gold layer is destroyed
Maximum switching voltage	250 V AC/DC
Minimum switching voltage	5 V (at 100 mA)
Limiting continuous current	4 A (for 100% ED 2 A per channel)
Interrupting rating (ohmic load) max.	96 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)
	1000 VA (for 250 V AC)

## Connection data

Field level

Connection method	Screw connection
Number of positions	32
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 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

Power supply

Connection method	Screw connection
Number of positions	6
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	26 ... 14

## Signaling

Status display present	yes
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## Dimensions

Dimensional drawing		
Width		240 mm
Height		126 mm
Depth		65 mm

## 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
Altitude	< 2000 m

## Standards and regulations

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

Standards/regulations	EN 61010-2-201
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### Air and creepage distances, output/output

Standards/regulations	EN 61010-2-201
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## 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., 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

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be met.

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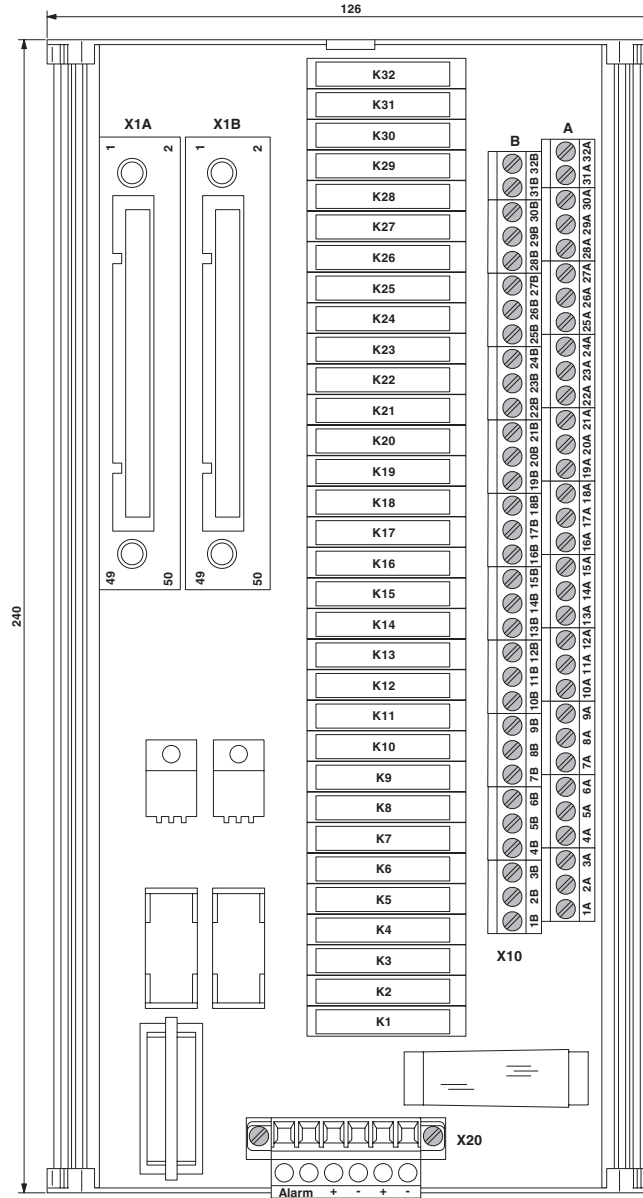


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## Drawings

Dimensional drawing



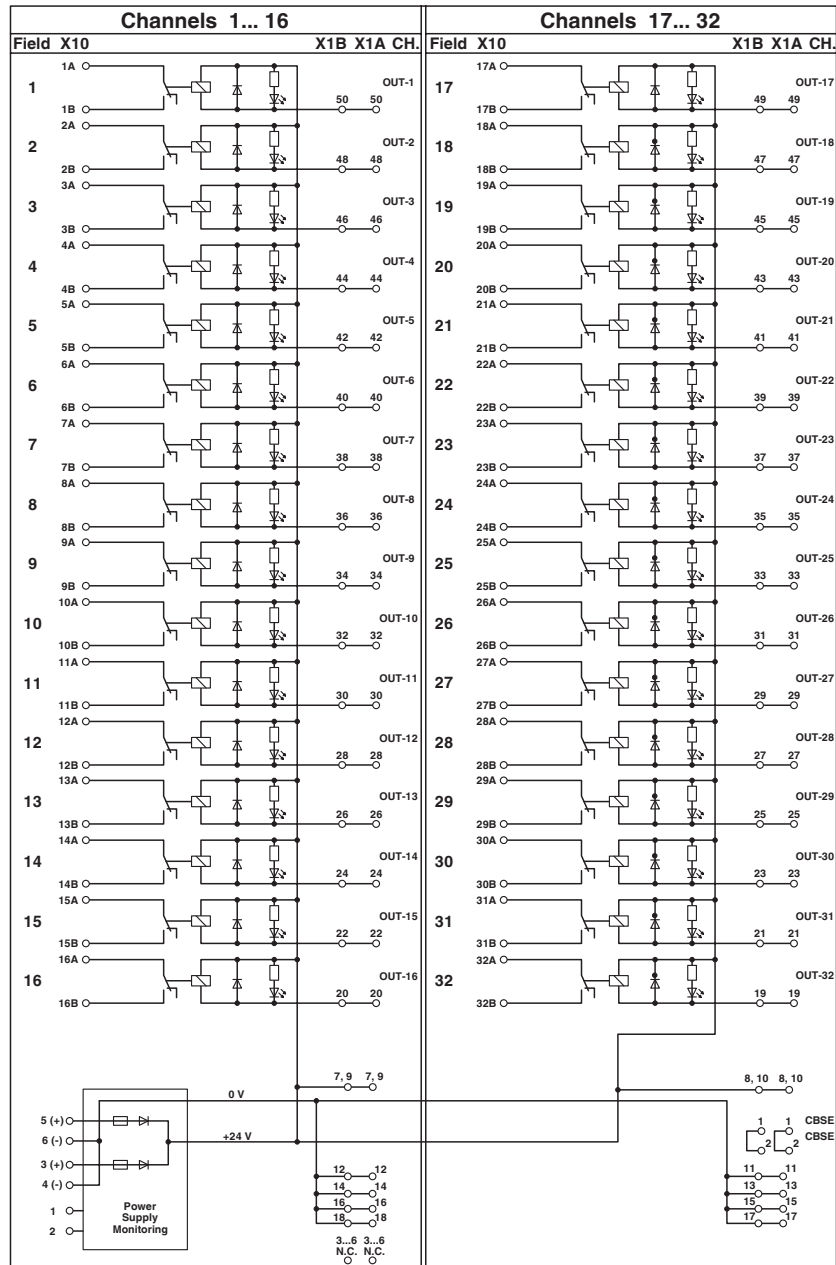
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## Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2311373>



**EAC**

Approval ID: RU\*-DE.\*08.B.01829\*



**CSA**

Approval ID: LR 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	250 V	4 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	EC002780
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### 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	1420d905-5dd7-4b8c-a939-1e250b931d71

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