

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

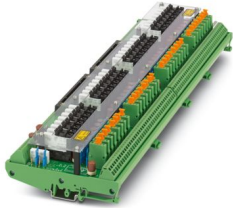


2968551

<https://www.phoenixcontact.com/us/products/2968551>

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



## Commercial data

Item number	2968551
Packing unit	1 pc
Minimum order quantity	2 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK219N
GTIN	4046356418492
Weight per piece (including packing)	1.469 kg
Weight per piece (excluding packing)	1.469 kg
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 between the power circuits

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Air clearances and creepage distances between the power circuits

Rated insulation voltage	250 V AC
Rated surge voltage	4 kV (Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths)

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

### 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/DC

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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)
	23 W (110 V DC)
	40 W (220 V DC)
	700 VA (250 V AC)
Output fuse	4 A (per channel)

## Connection data

### Field level

Connection method	Spring-cage 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

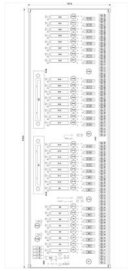
### Controller level

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
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## Dimensions

Dimensional drawing	
Width	419.5 mm
Height	127.5 mm
Depth	57 mm

## Environmental and real-life conditions

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## 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
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances between the power circuits

Standards/regulations	DIN EN 50178
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## Mounting

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

## Notes

Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	No additional touch protection is required when using a SELV/PELV voltage (≤ 25 V AC or 60 V DC).
Notes on operation	At least one functional insulation against adjacent modules is complied with (in the support rail direction). If the application has stricter requirements for the insulation (basic insulation or reinforced insulation), they 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.

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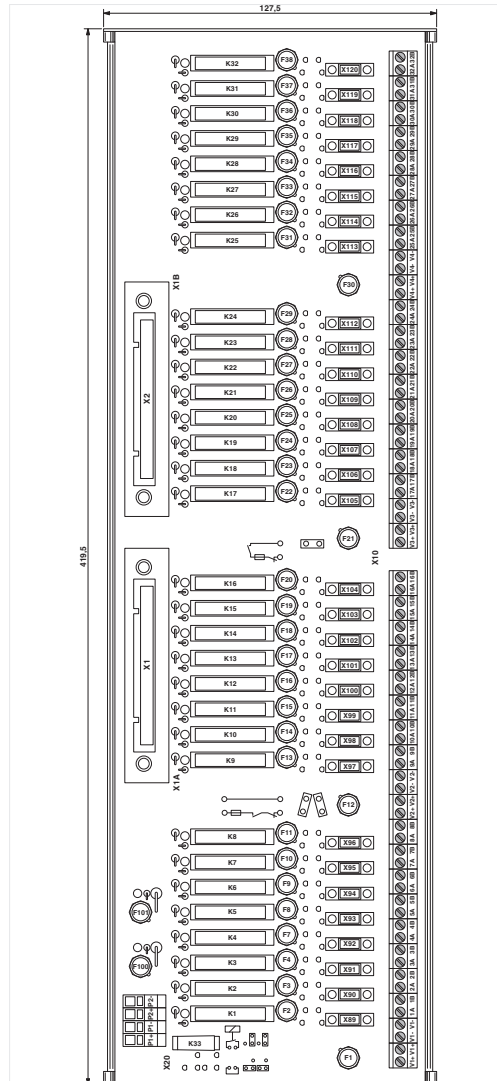


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## Drawings

Dimensional drawing



The figure shows a version with a screw connection

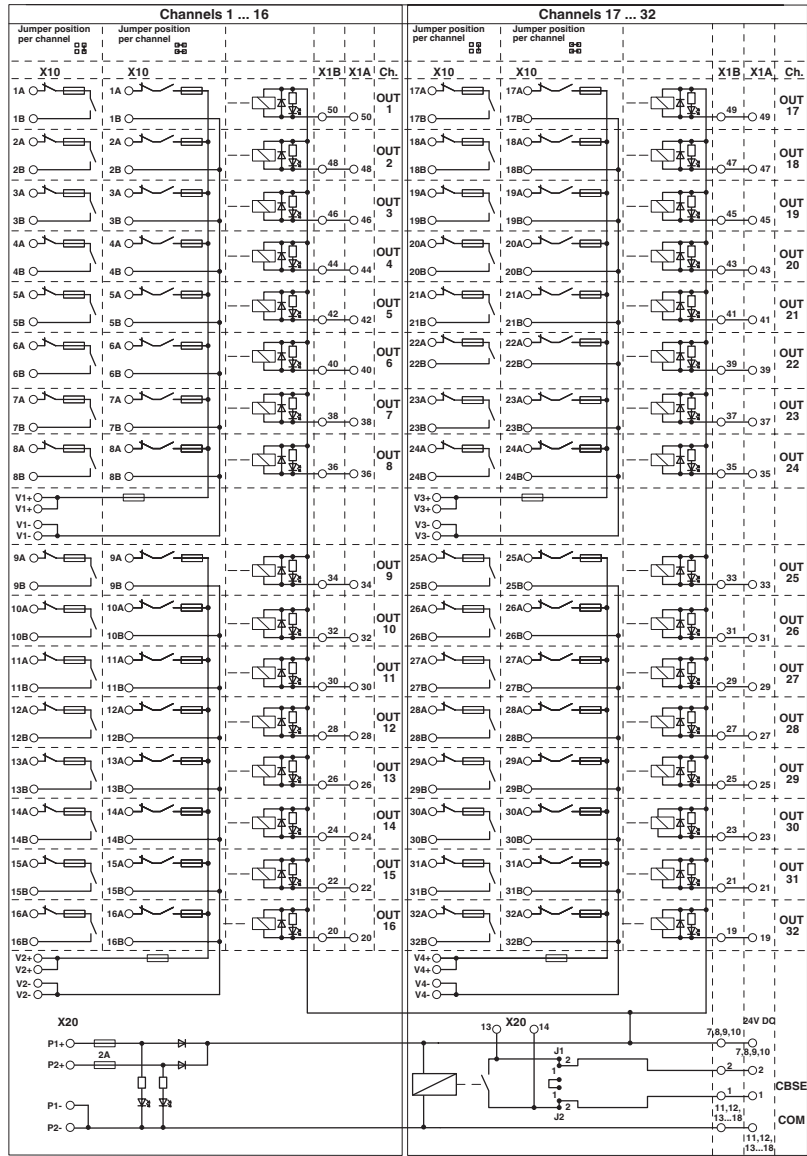
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## Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	39121400
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## 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)

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