

# UM-KS50/32-MR/1/SI/ADV551 - Active module



2901650

<https://www.phoenixcontact.com/us/products/2901650>

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

The figure shows the version UM-KS50/32-MR/1/SI/ADV151

## Commercial data

Item number	2901650
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK219N
GTIN	4046356620444
Weight per piece (including packing)	871 g
Weight per piece (excluding packing)	871 g
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
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Insulation characteristics: Air clearances and creepage distances between the power circuits

Overvoltage category	II
Pollution degree	2

### Electrical properties

Air clearances and creepage distances between the power circuits

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (Functional insulation)

### 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 $U_N$	7 mA
Typical response time	10 ms
Typical release time	8 ms
Protective circuit	Freewheeling 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	Double contact
Contact material	AgNi, 5 $\mu$ m hard gold-plated
Maximum switching voltage	25 V AC 48 V DC
Limiting continuous current	1 A
Max. total current of voltage supply	10 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	24 W (24 V DC) 48 W (48 V DC) 25 VA (25 V AC)
Output fuse	1 A Slow-blow (TR 5)

### Connection data

#### Field level

Connection method	Screw connection
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Stripping length	8 mm
Screw thread	M3
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

## 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 between the power circuits

Standards/regulations	EN IEC 60664-1
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## Mounting

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

## Notes

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.



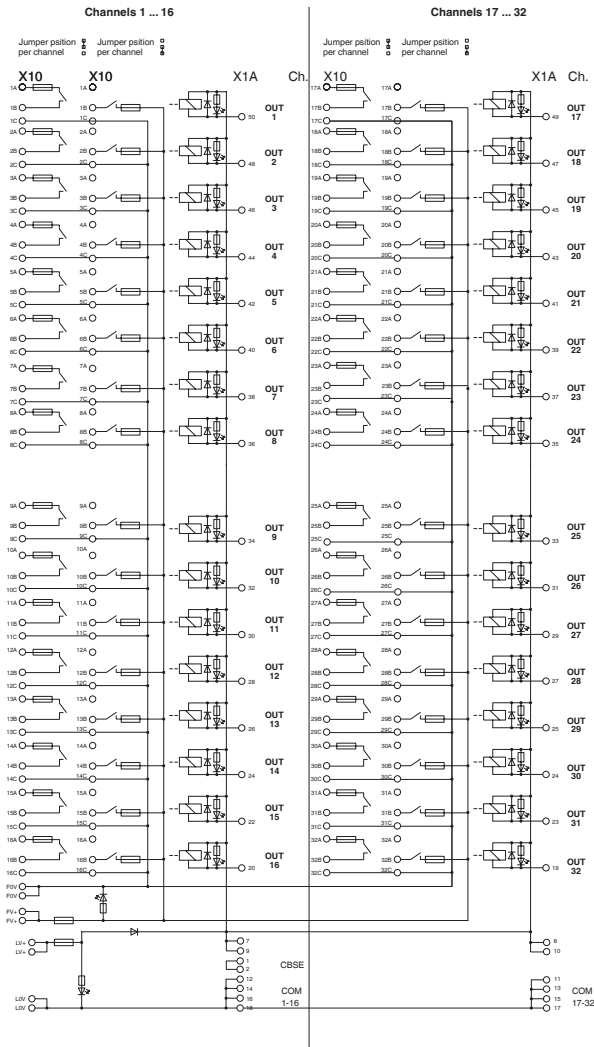
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## Circuit diagram



# UM-KS50/32-MR/1/SI/ADV551 - Active module



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2901650>



**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 9.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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2901650

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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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