

UM-KS50/32-MR/21/ADV151/SO207 - Active module



2311111

<https://www.phoenixcontact.com/us/products/2311111>

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32-channel input relay module with spring-cage connection and 50-pos. system connection. The coil side is secured and optionally non-isolated. Suitable for the Yokogawa ADV 151 und ADV 161 cards.

Commercial data

Item number	2311111
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2A9N
GTIN	4046356145916
Weight per piece (including packing)	832 g
Weight per piece (excluding packing)	760 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Product properties

Product type	Interface module
No. of channels	32

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 μ s)

Supported controller: YOKOGAWA CS3000 CentumVP

Suitable I/O card	ADV151
	ADV161

Supported controller: YOKOGAWA STARDOM

Suitable I/O card	NFDV151
	NFDV161

Input data

Nominal input voltage U_N	24 V DC (Supply, 2 A (V1+, V2+), pluggable fuse (IEC 60127-37/IV, 2AT))
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, pluggable fuse (IEC 60127-3/IV, 1AT))
Protective circuit	Freewheeling 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, hard gold-plated
Maximum switching voltage	< 50 V DC
Limiting continuous current	100 mA
Maximum inrush current	1 A (Supply, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 1AT))

Connection data

Field level

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 1.5 mm ²
Conductor cross-section AWG	24 ... 14

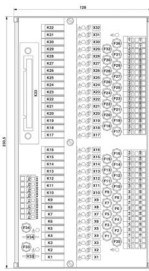
Controller level

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
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Dimensions

Dimensional drawing	
Width	231 mm
Height	128 mm
Depth	58 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 (95 %/50 °C (non-condensing))
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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Mounting

Mounting type	DIN rail mounting
Mounting position	any

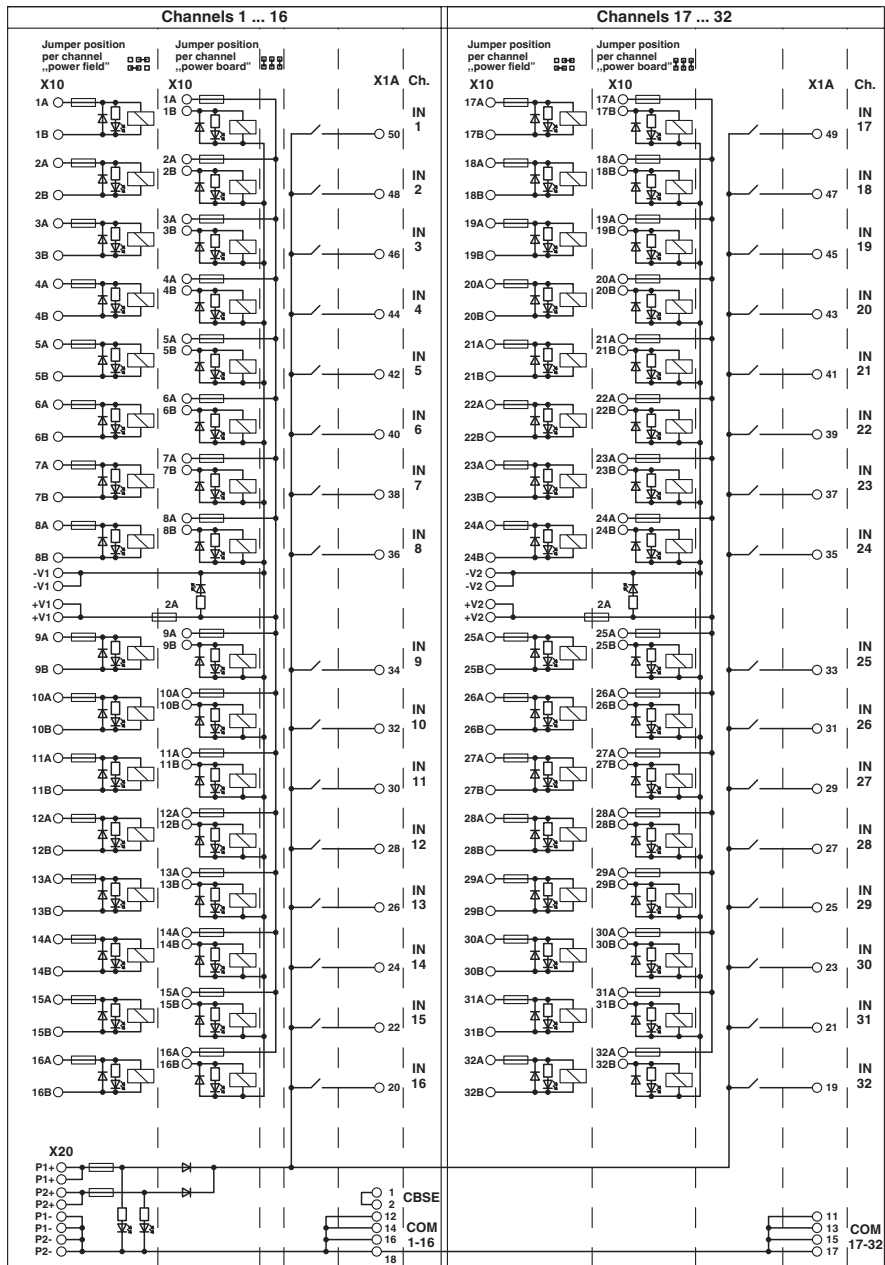
Notes

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



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2311111>



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 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	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	d307d1fb-a3c7-4287-8b35-97612734c56b

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