

UM-2KS50/32-MR/21/ADV151/SO179 - Active module



2310222

<https://www.phoenixcontact.com/us/products/2310222>

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32-channel input relay module (1 N/O contact) with screw connection and fuse (1 A). I/O connection, the voltage supply and the 50-pos. strip are designed redundantly. Suitable for Yokogawa ADV151 and ADV161 cards.

Commercial data

Item number	2310222
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK219N
GTIN	4046356283724
Weight per piece (including packing)	1.951 kg
Weight per piece (excluding packing)	1.951 kg
Customs tariff number	85364190
Country of origin	DE

Technical data

Product properties

Product type	Interface module
No. of channels	32
Mechanical service life	3x 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

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Pollution degree	2

Electrical properties

Air clearances and creepage distances, input/output

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

Air and creepage distances, output/output

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

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
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	18 mA (per channel)
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Free running; Freewheeling diode
	Reverse polarity protection; Polarity protection diode
Status display/channel	Yellow LED

Output data

Switching

Contact switching type	Single contact, 1 N/O contact
Type of switch contact	Single contact
Contact material	AgNi
Maximum switching voltage	24 V AC/DC (max. current per channel 100 mA, max. total current 1 A)
Output fuse	32x 80 mA 5x20 fuse
Typical response time	approx. 10 ms
Typical turn-off time	approx. 10 ms

Connection data

Field level

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm² ... 4 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12

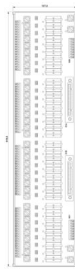
Controller level

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	519.5 mm
Height	127.5 mm
Depth	60.5 mm

Material specifications

Color	green (RAL 6021)
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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 IEC 60664-1
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Air and creepage distances, output/output

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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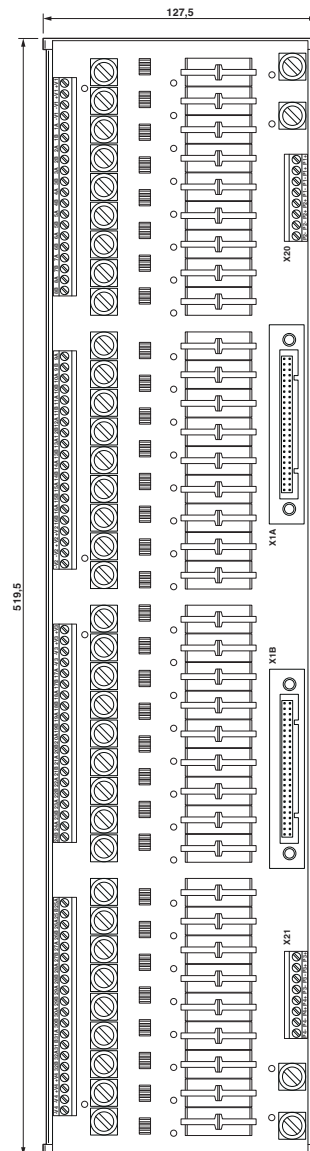


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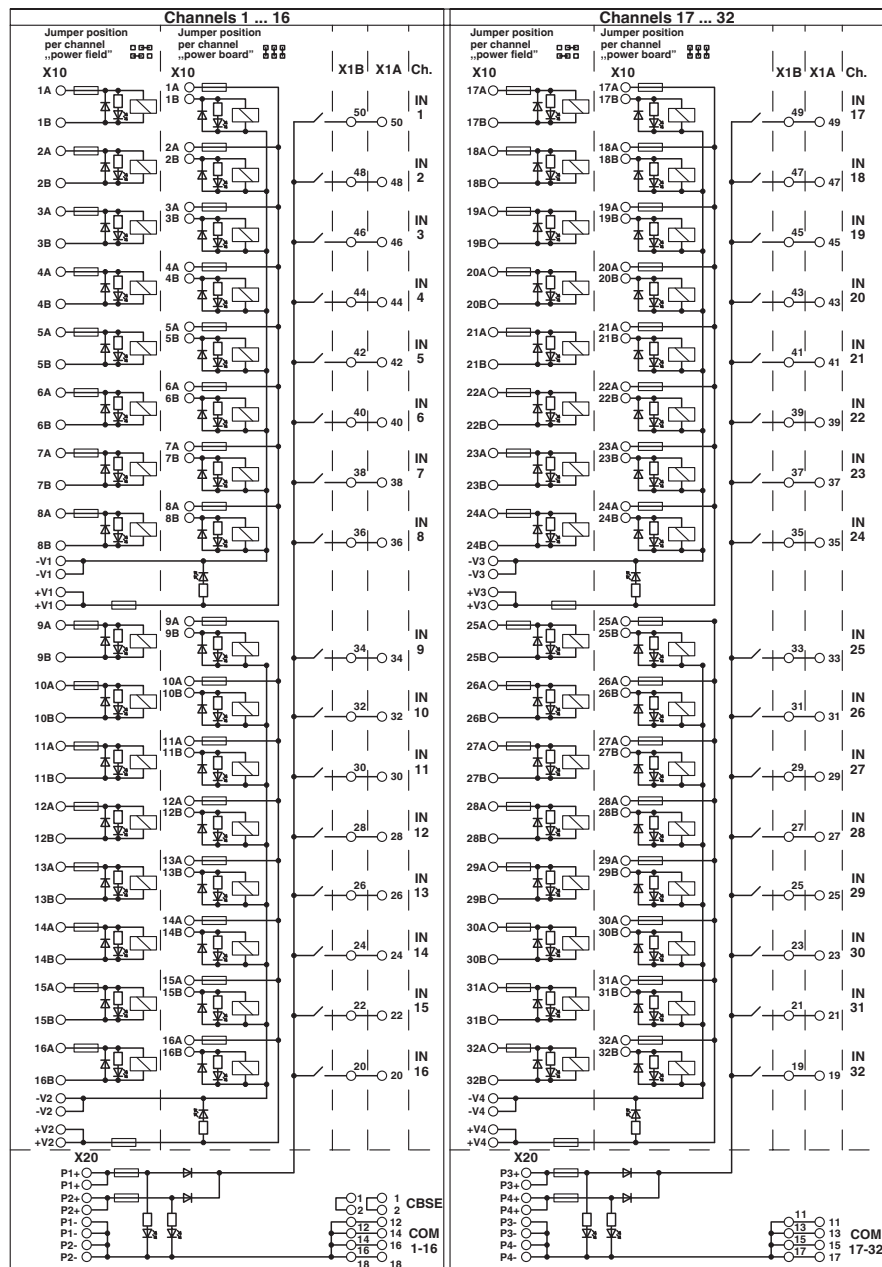
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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EAC

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

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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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: n/a)
SCIP	530a180a-82c9-4e70-984c-85fb9f4fc0c6