

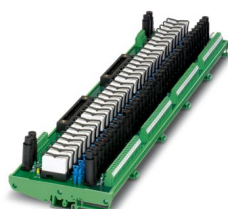
UM-2KS50/32-MR/21/ADV551/SO179 - Active module



2310235

<https://www.phoenixcontact.com/us/products/2310235>

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32-channel output relay module (one N/O contact or one N/C contact) with a screw connection and a fuse (1 A). The voltage supply and 50-pos. system connector are designed redundantly. Suitable for the Yokogawa ADV551 and ADV561 cards.

Commercial data

Item number	2310235
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK219N
GTIN	4046356141178
Weight per piece (including packing)	1,973 g
Weight per piece (excluding packing)	1,576.53 g
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	3x 10 ⁷ cycles

Insulation characteristics: Air clearances and creepage distances between the power circuits

Insulation	Functional insulation
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

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 (max. current per branch: 18 mA, max. total current: 1 A)
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
Typical response time	8 ms
Typical release time	10 ms
Protective circuit	Free running; Freewheeling diode
	Reverse polarity protection; Polarity protection diode
Operating voltage display	Green LED
Status display/channel	Yellow LED

Output data

Switching

Contact switching type	Single contact, 1 N/O contact or 1 N/C contact
Type of switch contact	Single contact
Contact material	AgNi, 5 µm hard gold-plated

Maximum switching voltage	24 V AC/DC
Minimum switching voltage	12 V DC (at 10 mA)
Limiting continuous current	1 A (per channel, power supply 8 A)
Min. switching current	10 mA

Connection data

Field level

Connection method	Screw connection
Screw thread	M3
Number of connections	35
Number of positions	3
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

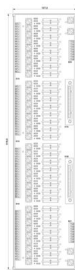
Controller level

Connection method	Yokogawa, KS compatible
Stripping length	8 mm
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)
Housing insulation material	PVC, side panel PA non-reinforced,

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 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	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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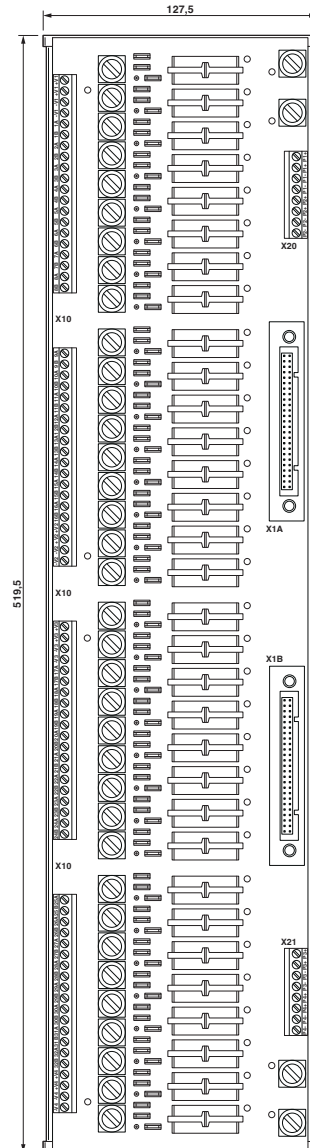


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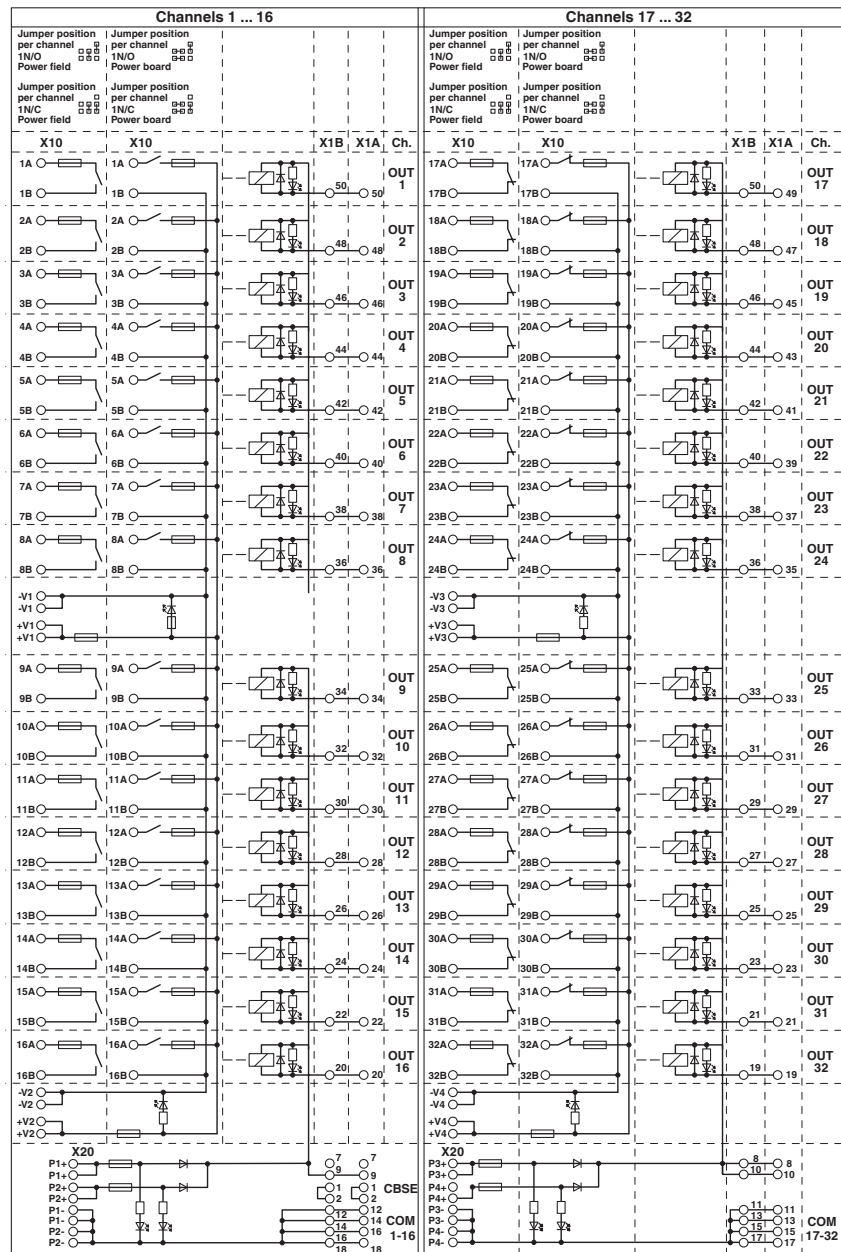
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Drawings

Dimensional drawing



Circuit diagram



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2310235>



EAC

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

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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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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.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
SCIP	8fbf0fc6-e4eb-4ab0-8b10-76286890049e