UM-2KS50/32R/SI/J/DO24V/P/YCS - Active module

1089344

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32-channel, 24 V DC output relay module with screw connection and redundant, 50-pos. system connection, fuse and jumper in every output circuit, for Yokogawa ADV551 and ADV561, positive switching

Commercial data

Item number	1089344
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DK219N
Product key	DK219N
GTIN	4055626892627
Weight per piece (including packing)	850,4 g
Weight per piece (excluding packing)	800 g
Customs tariff number	85364900
Country of origin	DE

Technical data

Product properties

No. of channels	32
Operating mode	100% operating factor
Mechanical service life	2x 10^7 cycles

Insulation characteristics: Air clearances and creepage distances

Overvoltage category	II
Pollution degree	2

Electrical properties

Air clearances and creepage distances

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

Supported controller: YOKOGAWA CENTUM VP

Suitable I/O card	ADV551
	ADV561
	NFDV551
	NFDV561

Input data

Nominal input voltage U_N	24 V DC
Input voltage range in reference to U_N	0.8 ... 1.2
Input voltage range	19.2 V DC ... 28.8 V DC
Typical input current at U_N	7 mA
Typical response time	5 ms
Typical release time	6 ms
Status display/channel	green LED

Output data

Switching

Contact switching type	1 N/O contact
Type of switch contact	Single contact
Contact material	AgSnO
Maximum switching voltage	24 V DC
Minimum switching voltage	5 V (100 mA)
Limiting continuous current	1.5 A (32 °C)
	1 A (45 °C)
	0.5 A (50 °C)
Max. total current of voltage supply	10 A (50 °C)
Min. switching current	1 mA (24 V)

Interrupting rating (ohmic load) max.	48 W (24 V DC)

Connection data

Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	50

Field level

Connection method	Screw connection
Number of connections	32
Number of positions	2
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

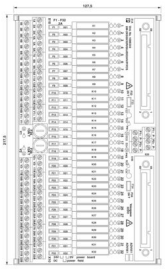
Supply

Connection method	Screw connection
Number of connections	4
Number of positions	2
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

Signaling

Status display present	yes

Dimensions

Dimensional drawing	
Width	217.5 mm
Height	127.5 mm
Depth	60.5 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
Ambient temperature (storage/transport)	-20 °C ... 80 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1

Mounting

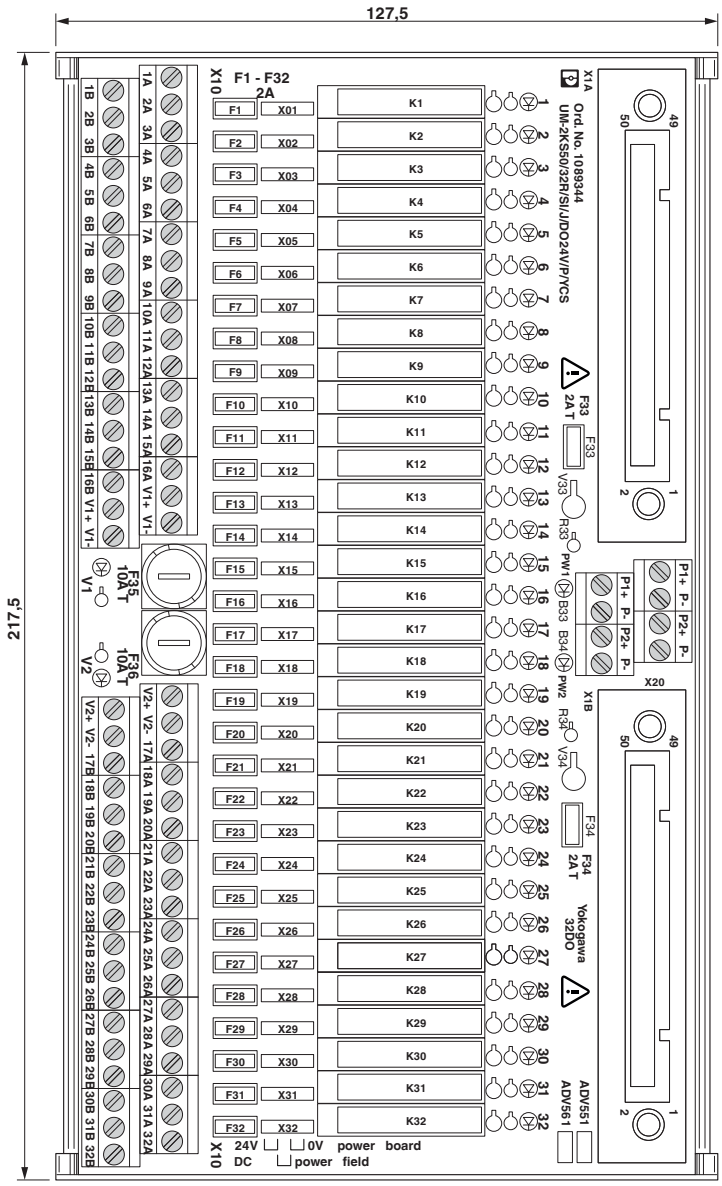
Mounting type	DIN rail mounting
Assembly note	in rows with zero spacing
Mounting position	any

Notes

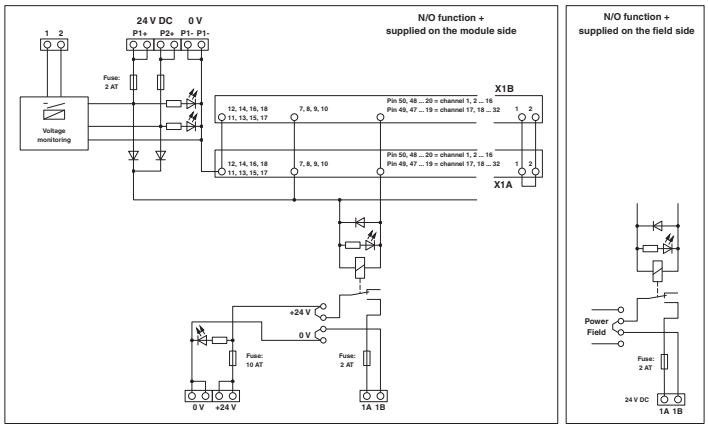
Notes on operation	Do not connect adjacent channels to SELV/PELV and FELV.
Notes on operation	No additional touch protection is required when using a SELV/PELV voltage (≤ 25 V AC or 60 V DC).
Notes on operation	At least one functional insulation against adjacent modules is complied with (in the support 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	Do not use for isolation
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.

Drawings

Dimensional drawing



Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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)
SCIP	4b378bdd-3cf3-41c2-a594-30762a459710

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