

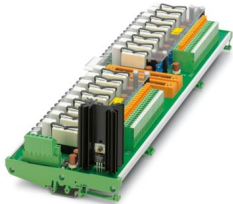
# UM-2KS50-RM/MR/SI/1/SDV541 - Relay Module



2319430

<https://www.phoenixcontact.com/us/products/2319430>

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16-channel output relay module with screw connection and 50-pos. system connection, coil side is protected and non-isolated (optional), for Yokogawa SDV 541 cards, module width: 425 mm

## Commercial data

Item number	2319430
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK21B4
GTIN	4046356550031
Weight per piece (including packing)	1,516 g
Weight per piece (excluding packing)	1,516 g
Customs tariff number	85389099
Country of origin	DE

## Technical data

### Product properties

Product type	Interface module
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#### Insulation characteristics

Insulation	Safe isolation, reinforced insulation
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#### Insulation characteristics: Air clearances and creepage distances, input/output

Insulation	Safe isolation, reinforced insulation
Overvoltage category	III
Pollution degree	2

#### Insulation characteristics: Air and creepage distances, output/output

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

#### Air clearances and creepage distances, input/output

Rated insulation voltage	300 V
Rated surge voltage	6 kV (1.2/50 µs)

#### Air and creepage distances, output/output

Rated insulation voltage	300 V
Rated surge voltage	4 kV (1.2/50 µs)

#### Supported controller YOKOGAWA ProSafe-RS

Suitable I/O card	SDV541
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### 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 $U_N$	40 mA
Protective circuit	Freewheeling diode
Status display/channel	Yellow LED

### Output data

#### Switching

Contact switching type	1 N/O contact per channel
Contact material	AgNi (90/10) gold-plated
Maximum switching voltage	230 V AC
	63 V DC
Limiting continuous current	4 A (plug-in fuse)

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Maximum inrush current	Supply 24 V DC/2 A, (P1+, P2+), pluggable fuse (IEC 60127-3/IV, 2AT)
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## Connection data

### Supply

Connection method	Screw connection
Number of positions	6
Conductor cross section rigid	0.34 mm <sup>2</sup> ... 2.5 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

### Field level

Connection method	Screw connection with disconnect knife
Number of connections	2
Number of positions	20
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
Tightening torque	0.5 Nm

## Signaling

Status display present	No
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## Dimensions

Width	424.5 mm
Height	127.5 mm
Depth	67 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
Altitude	≤ 2000 m

## Standards and regulations

### Air clearances and creepage distances, input/output

Standards/regulations	EN 61010-2-201
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### Air and creepage distances, output/output

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Standards/regulations	EN 61010-2-201
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

General	Observe the maximum switching capacity of the relays used
General	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
General	The outputs are not suitable for switching different line conductors. The sum of the switching voltages used for adjacent outputs must not exceed the rated insulation voltage value
General	The necessary requirements for insulation (basic insulation or reinforced insulation) from adjacent modules (in DIN-rail direction) must be realized by applying suitable measures (e. g., partition plates).
General	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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## Classifications

### ECLASS

ECLASS-11.0	27141152
ECLASS-12.0	27141152
ECLASS-13.0	27141152

### ETIM

ETIM 9.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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