

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

2319430

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



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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	DK2A9N
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
Insulation characteristics: Air clearances and creepage distances, input/output	
Insulation	Safe isolation, reinforced insulation
Overtoltage category	III
Pollution degree	2

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

Insulation	Basic insulation
Overtoltage 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
-------------------	--------

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

## 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
------------------------	----

## 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
-----------------------	----------------

### Air and creepage distances, output/output

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

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

Notes on operation	Observe the maximum switching power of the relays used
Notes on operation	Do not connect adjacent channels to SELV/ PELV and voltages dangerous to the touch.
Notes on operation	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
Notes on operation	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).
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.

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2319430>

 EAC	Approval ID: RU*C-DE.*08.B.00010
---	----------------------------------

 CSA	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	120 V	16 A	-	-

## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 9.0	EC002780
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

## 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	425b662e-32af-464a-bc5e-6deef06a6b3b

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

### Phoenix Contact USA

586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)