

# UM-2KS50/16DI/RS/MKDS - Input module



2900173

<https://www.phoenixcontact.com/us/products/2900173>

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16-channel digital input module with screw connection and redundant voltage supply. Suitable for Yokogawa SDV 144 card.

## Commercial data

Item number	2900173
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2A8N
GTIN	4046356484053
Weight per piece (including packing)	483 g
Weight per piece (excluding packing)	474 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Interface module
Number of positions	50
No. of channels	16

### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage (DC)	24 V DC $\pm$ 5 %
Current (per branch)	$\leq$ 100 mA

### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 $\mu$ s)

### Supported controller: YOKOGAWA ProSafe-RS

Suitable I/O card	SDV144
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## Connection data

### Field level

Connection method	Screw connection
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 14

### Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	50
Tightening torque	0.5 Nm

### Supply

Connection method	pluggable
Number of connections	1
Number of positions	6

## Signaling

Status display	Green LED (supply), yellow LED (channel)
Status display present	yes

## Dimensions

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## Item dimensions

Width	161.8 mm
Height	111.8 mm
Depth	69.25 mm

## Material specifications

Color	green (RAL 6021)
Housing insulation material	PVC

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Degree of protection (Installation location)	≥ IP54 (Installation location)
Ambient temperature (operation)	-20 °C ... 70 °C
Altitude	< 2000 m

## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1
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## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

Notes on operation	Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display.
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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900173>



**EAC**

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



**CSA**

Approval ID: LR 13631

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	24 V	2 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	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.)	Lead(CAS: 7439-92-1)
SCIP	f47ca7c2-64eb-4c63-851b-f496b18718dd

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