UM-2KS40/16AI-J/SI/RS/SO225 - Input module

2905003

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16-channel analog input module with screw connection, redundant voltage supply, and additional jumpers for each channel. Suitable for Yokogawa SAI 143 card.

Product description

These modules have been specifically developed to connect analog I/O cards to the field level using preassembled system cables. The modules offer the following features:
- Transmission of up to 16 channels
- Two parallel system connections for redundant applications
- Fuse and LED per channel
- 2- or 3-conductor connection for each channel depending on the jumper position
- Screw connection

The following input cards can be connected:
SAI 143

Commercial data

Item number	2905003
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK218N
GTIN	4046356906937
Weight per piece (including packing)	848.4 g
Weight per piece (excluding packing)	818.2 g
Customs tariff number	85369010
Country of origin	DE

Technical data

Product properties

Product type	Interface module
No. of channels	16
Operating mode	100% operating factor

Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

Electrical properties

Operating voltage (DC)	24 V DC
Operating voltage range	19.2 V DC ... 30 V DC
Current (Per path)	≤ 0.9 A (protected by slow-blow fuse 1 A, 5 x 20 (short-circuit protection only))
Current (Total current)	≤ 10 A (protected by slow-blow fuse 10 A, 5x20 (short-circuit protection only))

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supported controller: YOKOGAWA ProSafe-RS

Suitable I/O card	SAI143

Output data

Alarm contact

Contact switching type	1 N/O contact
Type of switch contact	Double contact
Contact material	AgNi, 5 µm hard gold-plated
Maximum switching voltage	25 V AC
	48 V DC
Limiting continuous current	1 A
Min. switching current	1 mA
Interrupting rating (ohmic load) max.	24 W (24 V DC)
	48 W (48 V DC)
	25 VA (25 V AC)

Connection data

Field level

Connection method	Screw connection
Number of connections	1

Number of positions	66
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

Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	40
Tightening torque	0.5 Nm

Supply

Connection method	Screw connection
Number of connections	1
Number of positions	6
Conductor cross-section rigid	0.34 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 12

Signaling

Status display	LED (red)
Status display present	yes, if the fuse fails
Operating voltage display	Green LED

Dimensions

Item dimensions

Width	181.4 mm
Height	127.5 mm
Depth	94.7 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 ... 55 °C
Altitude	≤ 2000 m

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN IEC 60664-1

Mounting

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

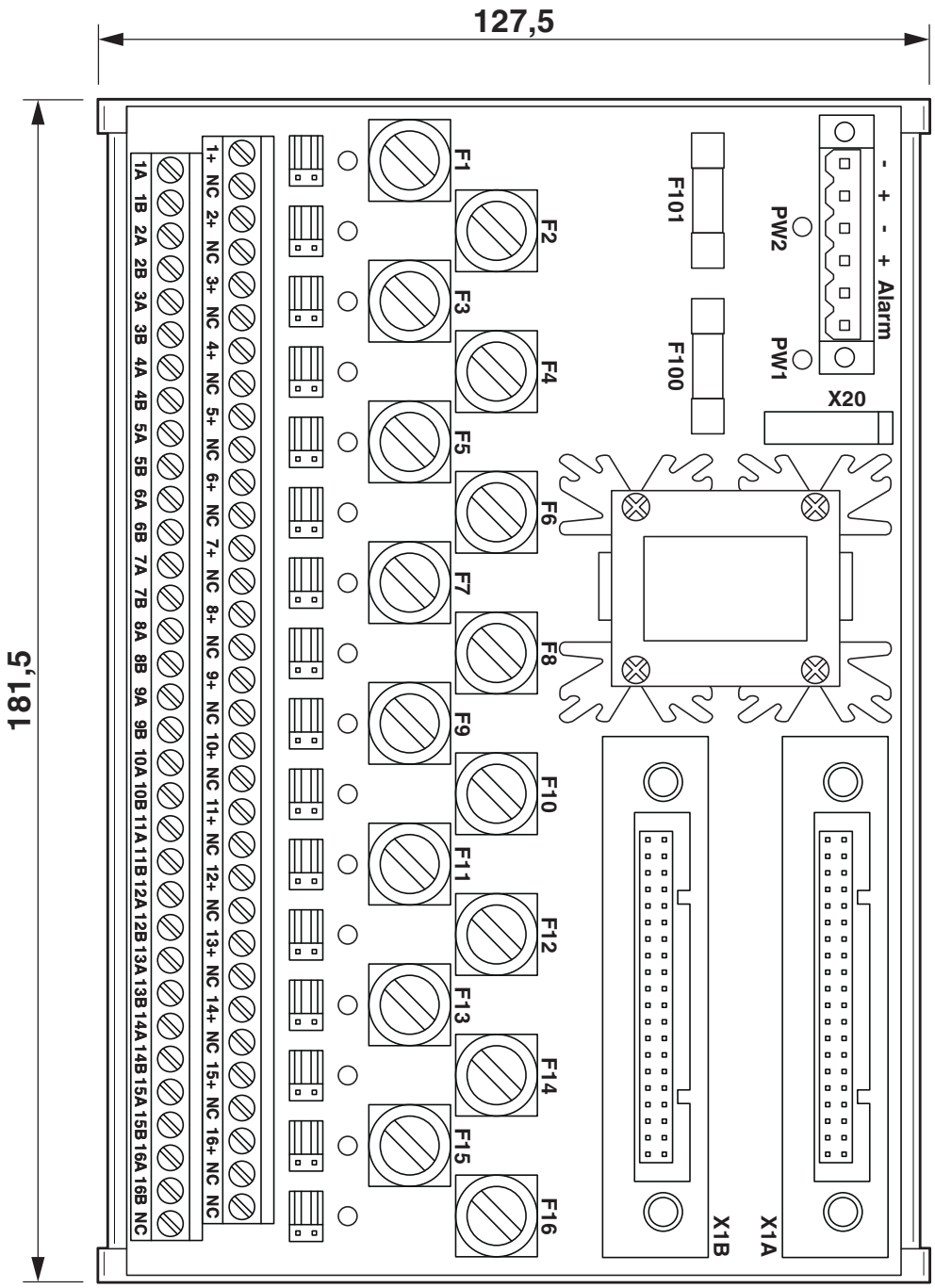
Mounting position	any

Notes

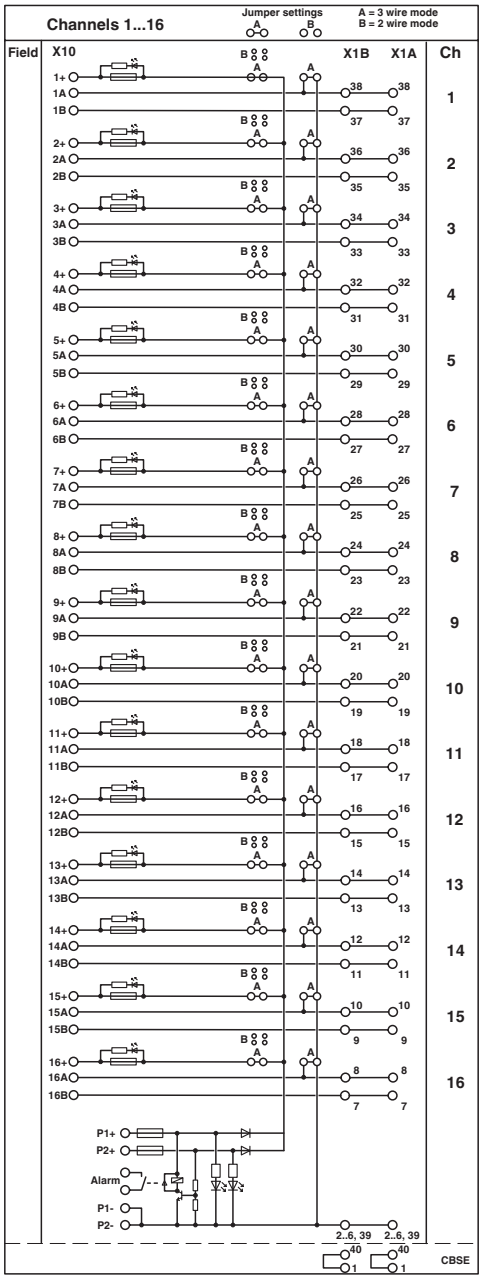
Notes on operation	No additional touch protection is required when using a SELV/PELV voltage (≤ 25 V AC or 60 V DC).
Notes on operation	At least one functional insulation against adjacent modules is complied with (in the support rail direction). If the application has stricter requirements for the insulation (basic insulation or reinforced insulation), they must be realized by applying suitable measures (e. g. divider 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.

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2905003

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

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), 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	fffdae75-9db7-4483-86f7-419fd90f9031

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