

# UM-2KS40/16AIO/RS/SO225 - Input/output module

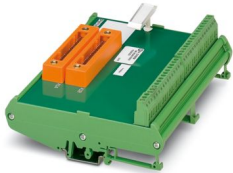


2319838

<https://www.phoenixcontact.com/us/products/2319838>

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16-channel analog input and 8-channel analog output module with screw connection and redundant connector plug. Suitable for Yokogawa SAI 143, SAV 144, SAI 533 cards.



## Commercial data

Item number	2319838
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	DK2A8N
GTIN	4046356441384
Weight per piece (including packing)	339.6 g
Weight per piece (excluding packing)	339.6 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Interface module
No. of channels	8
	16

### Insulation characteristics: Air clearances and creepage distances

Insulation	Functional insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Operating voltage (DC)	≤ 30 V DC
Current (per branch)	≤ 0.1 A

### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV (1.2/50 μs)

### Supported controller: YOKOGAWA ProSafe-RS

Suitable I/O card	SAI143
	SAV144
	SAI533

## Connection data

### Connection 1 (control level)

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	40
Tightening torque	0.5 Nm
Pitch	2.54 mm

### Connection 2 (field level)

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Number of positions	32
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section rigid (2 conductors with same cross section)	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Ferrule with plastic sleeve)
	0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

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Conductor cross-section flexible (2 conductors with same cross section)	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (Ferrule without plastic sleeve)
	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (TWIN ferrule with plastic sleeve)
Conductor cross-section AWG	24 ... 12
Tightening torque	0.5 Nm ... 0.6 Nm
Pitch	5.08 mm

## Signaling

Status display present	no
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## Dimensions

### Item dimensions

Width	168 mm
Height	125.4 mm
Depth	54.6 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Module)	IP00
Degree of protection (Installation location)	≤ IP54
Ambient temperature (operation)	-20 °C ... 55 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Altitude	≤ 2000 m

## Approvals

### UKCA

Certificate	UKCA-compliant
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## 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	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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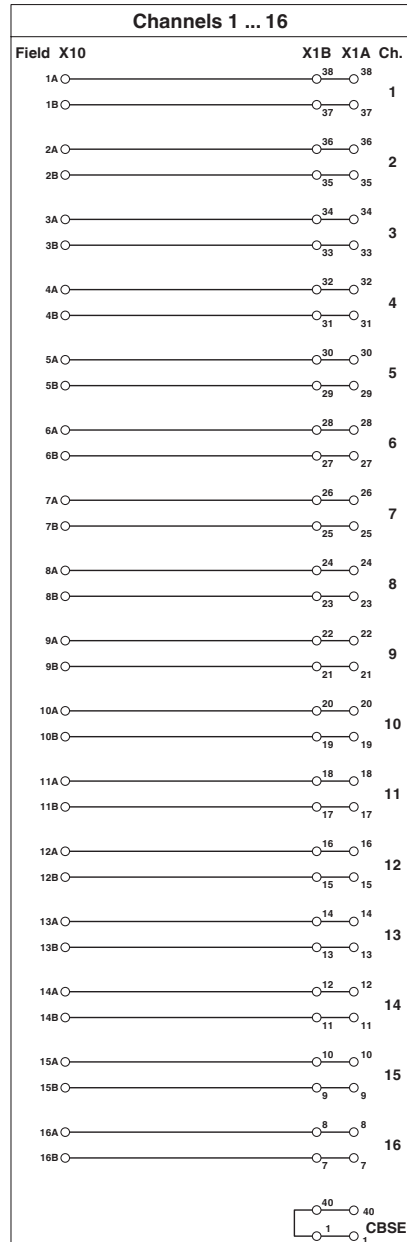


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## Drawings

### Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2319838>



**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	0.1 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

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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