

# UM-2KS40/AI16/CS/Z/SO180 - Input module



2311331

<https://www.phoenixcontact.com/us/products/2311331>

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 analog input module with spring-cage connection and redundant voltage supply. Suitable for Yokogawa AAI141 and AAI143 cards. Connection option for HART multiplexers.

## Commercial data

Item number	2311331
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C421
Product key	CK21A4
GTIN	4046356317702
Weight per piece (including packing)	447.7 g
Weight per piece (excluding packing)	169.96 g
Customs tariff number	85369010
Country of origin	DE

# UM-2KS40/AI16/CS/Z/SO180 - Input module



2311331

<https://www.phoenixcontact.com/us/products/2311331>

## Technical data

### Product properties

Product type	Interface module
No. of channels	32
	16

### Insulation characteristics

Overvoltage category	II
Pollution degree	2

### Electrical properties

Nominal voltage $U_N$	24 V DC $\pm 10\%$
Max. total current of all branches	2 A (Redundant (P1+,P2+))
Rated surge voltage	0.5 kV

### Supported controller YOKOGAWA CS3000 CentumVP

Suitable I/O card	AAI141
	AAI143

### Supported controller YOKOGAWA STARDOM

Suitable I/O card	NFAI141
	NFAI143

## Connection data

### Field level

Connection method	Spring-cage 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	40
Tightening torque	0.5 Nm
Connection method	HART connector
Number of positions	26

## Signaling

Status display present	No
------------------------	----

## Dimensions

### Item dimensions

Width	162.5 mm
-------	----------

# UM-2KS40/AI16/CS/Z/SO180 - Input module



2311331

<https://www.phoenixcontact.com/us/products/2311331>

Height	125.4 mm
Depth	70.7 mm

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-20 °C ... 50 °C
Ambient temperature (storage/transport)	-20 °C ... 70 °C

## Standards and regulations

Standards/regulations	DIN EN 50178
-----------------------	--------------

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

## Notes

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

# UM-2KS40/AI16/CS/Z/SO180 - Input module



2311331

<https://www.phoenixcontact.com/us/products/2311331>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# UM-2KS40/AI16/CS/Z/SO180 - Input module



2311331  
<https://www.phoenixcontact.com/us/products/2311331>

## 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"

Phoenix Contact 2024 © - 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)