

# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

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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.



## Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356317702

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
Type of note	Notes on operation
Note	Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display.

### Dimensions

Width	163 mm
Height	126 mm
Depth	65 mm

### Ambient conditions

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

### General

Nominal voltage $U_N$	24 V DC $\pm 10\%$
Max. permissible current (all branches)	2 A (Redundant (P1+,P2+))
Mounting position	any

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## Technical data

### Connection data

Connection name	Field level
Connection method	Spring-cage connection
Conductor cross section solid	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

### Connection data 2

Connection name	Controller level
Connection method	Yokogawa KS-compatible
Number of connections	2
Number of positions	40
Torque	0.5 Nm

### Connection data 3

Connection method	HART connector
Number of positions	26

### Supported controller

Controller	YOKOGAWA CS3000 CentumVP
- suitable I/O card	AAI141
	AAI143
Controller	YOKOGAWA STARDOM
- suitable I/O card	NFAI141
	NFAI143

### Standards and Regulations

Standards/regulations	DIN EN 50178
Rated surge voltage	0.5 kV
Pollution degree	2
Overvoltage category	II

### Environmental Product Compliance

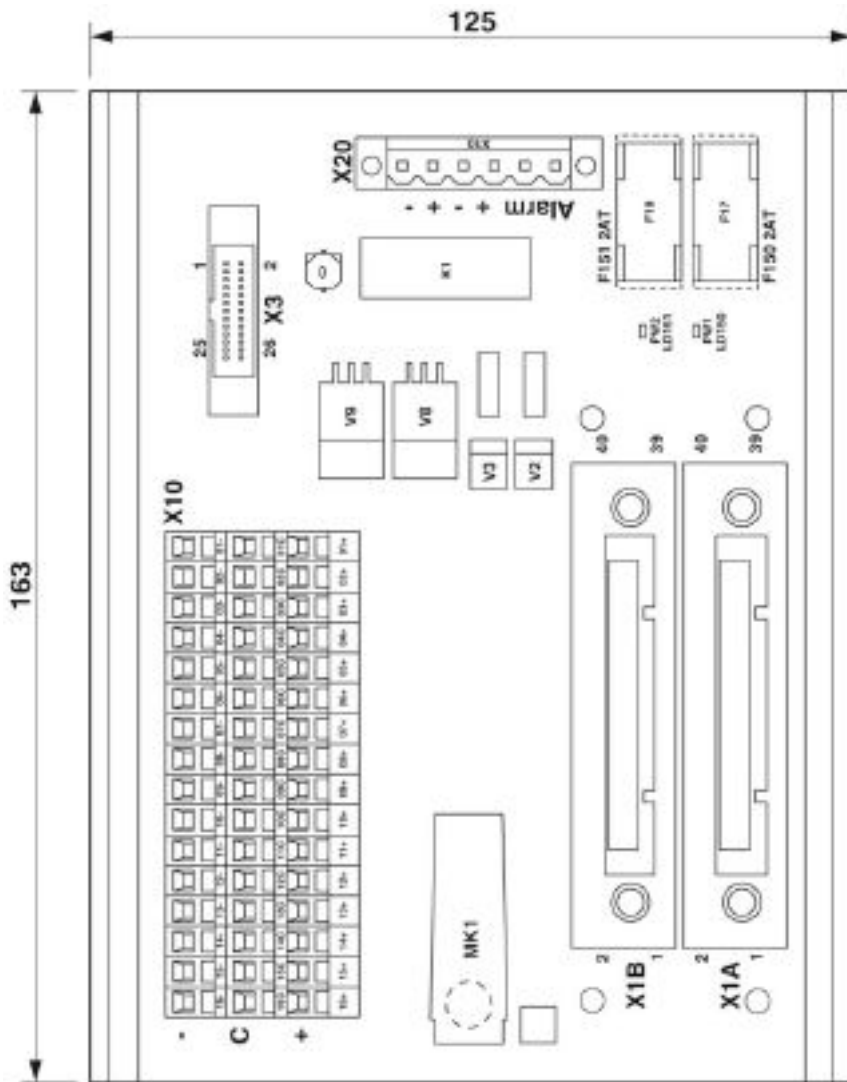
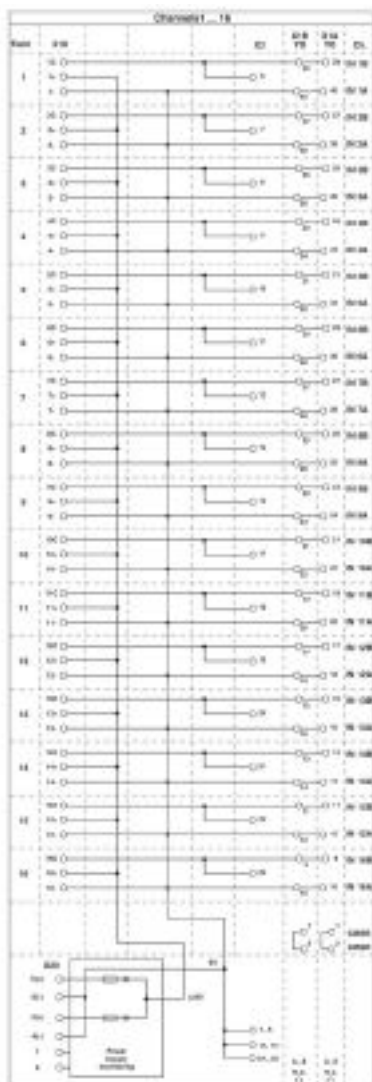
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

Circuit diagram

Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	27141152
eCl@ss 4.0	24010700
eCl@ss 4.1	24010700
eCl@ss 5.0	19030500
eCl@ss 5.1	19030500
eCl@ss 6.0	27069200
eCl@ss 7.0	27141152
eCl@ss 8.0	27141152
eCl@ss 9.0	27141152

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## Classifications

### ETIM

ETIM 5.0	EC002780
ETIM 6.0	EC002780
ETIM 7.0	EC002780

### UNSPSC

UNSPSC 6.01	30211824
UNSPSC 7.0901	39121421
UNSPSC 11	39121421
UNSPSC 12.01	39121421
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

### Approval details

EAC		RU* DE.*08.B.01829*
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## Accessories

### Accessories

#### Front adapter

Front adapters - FLK 40-PA/EZ-DR/KS/ 100/YUC - 2322786



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

## Accessories

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### Front adapters - FLK 40-PA/EZ-DR/KS/ 200/YUC - 2314341



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/ 300/YUC - 2314354



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/ 400/YUC - 2314367



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/ 500/YUC - 2321570



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/ 600/YUC - 2314943



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 6.0 m

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## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

#### Front adapters - FLK 40-PA/EZ-DR/KS/ 700/YUC - 2321583



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/ 800/YUC - 2314956



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/ 900/YUC - 2321415



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1000/YUC - 2314370



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1100/YUC - 2321428



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 11.0 m

## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

#### Front adapters - FLK 40-PA/EZ-DR/KS/1200/YUC - 2321431



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1300/YUC - 2321444



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 13.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1400/YUC - 2321457



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 14.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1500/YUC - 2314383



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/1600/YUC - 2321596



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 16.0 m

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# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

## Accessories

### Front adapters - FLK 40-PA/EZ-DR/KS/1700/YUC - 2321606



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 17.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/1800/YUC - 2321619



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 18.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/1900/YUC - 2321622



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 19.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

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### Front adapters - FLK 40-PA/EZ-DR/KS/2500/YUC - 2314545



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

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## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

#### Front adapters - FLK 40-PA/EZ-DR/KS/3000/YUC - 2314558



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/3500/YUC - 2901017



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/4000/YUC - 2901052



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 40.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/KS/4500/YUC - 2902912



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 45.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 100/YUC - 2904747



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

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## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 200/YUC - 2904748



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 300/YUC - 2904749



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 400/YUC - 2904750



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 500/YUC - 2904645



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

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#### Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 600/YUC - 2904751



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 60.0 m

# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

## Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 700/YUC - 2904752



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 800/YUC - 2904753



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/ 900/YUC - 2904754



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/1000/YUC - 2904646



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/1500/YUC - 2904647



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

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## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/2000/YUC - 2904488



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/2500/YUC - 2904648



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/3000/YUC - 2904649



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/3500/YUC - 2904650



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/4000/YUC - 2904651



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 40.0 m

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## Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

### Accessories

Front adapters - FLK 40-PA/EZ-DR/HF/KS/4500/YUC - 2904652



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 45.0 m

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Front adapters - FLK 40-PA/EZ-DR/HF/KS/5000/YUC - 2904653



Cast front adapter with attached, halogen-free round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

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