

## 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 STK
Weight per Piece (excluding packing)	169.960 g
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### 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

Note	Voltage monitoring on the module does not work in combination with upstream HESILED fuse terminal blocks with integrated LED display.
Max. perm. operating voltage	24 V DC $\pm$ 10 %

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## Technical data

### General

Max. permissible current (all branches)	2 A (Redundant (P1+,P2+))
Mounting position	any
Standards/regulations	DIN EN 50178
Rated surge voltage	0.5 kV
Degree of pollution	2
Overvoltage category	II

### Connection data for connection 1

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 for connection 2

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

### Connection data for connection 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

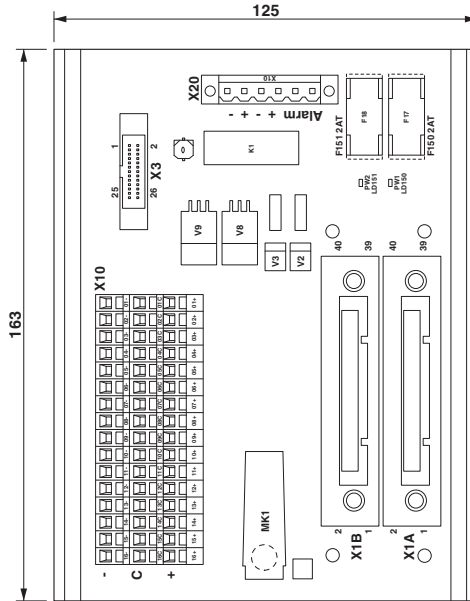
### Standards and Regulations

Standards/regulations	DIN EN 50178
Degree of pollution	2
Overvoltage category	II

## Drawings

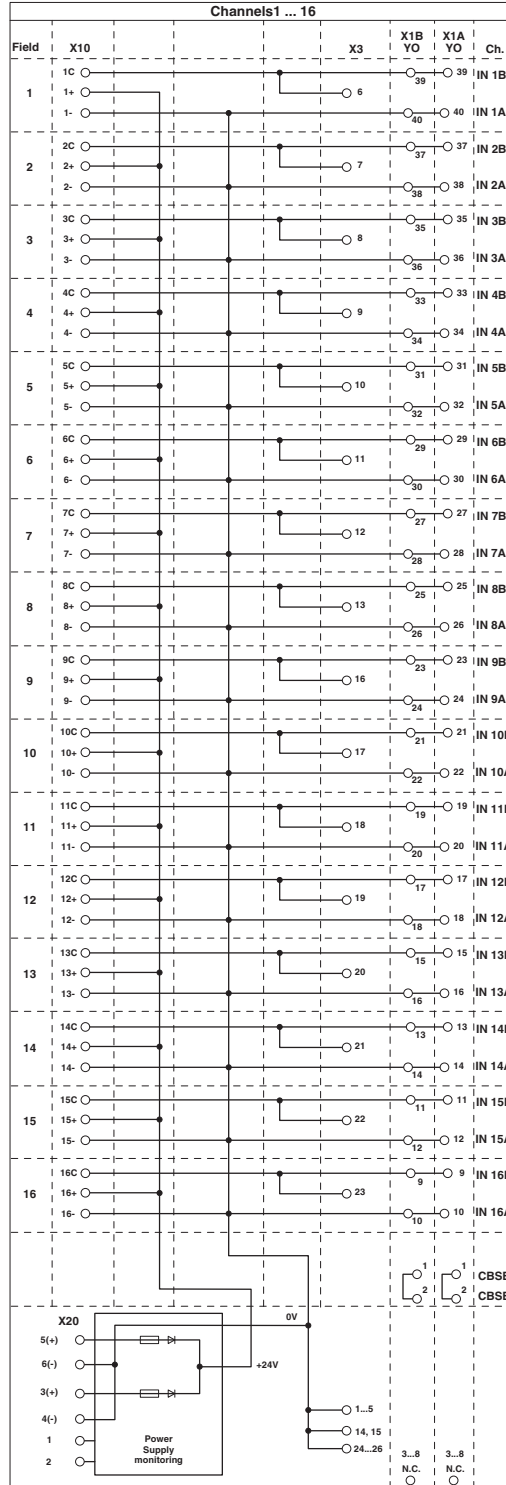
# Input module - UM-2KS40/AI16/CS/Z/SO180 - 2311331

Dimensional drawing



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

Circuit diagram



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

## Classifications

### eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27250313
eCl@ss 5.1	27250313
eCl@ss 6.0	27069203
eCl@ss 7.0	27069203
eCl@ss 8.0	27141152
eCl@ss 9.0	27141152

### ETIM

ETIM 2.0	EC001434
ETIM 3.0	EC001604
ETIM 4.0	EC001437
ETIM 5.0	EC002780

### UNSPSC

UNSPSC 6.01	30211824
UNSPSC 7.0901	39121421
UNSPSC 11	39121421
UNSPSC 12.01	39121421
UNSPSC 13.2	39121421

## 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

#### 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

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## 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

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## 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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Cable - 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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