

# TC-2KS40-AIO16R-CS3000 - Module carrier



2902661

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Termination carrier for redundantly connecting 16 MACX Analog Ex i signal conditioners to analog input/output cards of the Yokogawa CS3000 controller, via two KS40 connectors, 40-pos. Suitable for Yokogawa AAI141 and AAI543 cards.

## Your advantages

- Mechanically decoupled PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- Redundant system connection, 40-pos. (KS/AKB-compatible)
- Simple or redundant supply (decoupled from diode, protected against polarity reversal) and monitoring function implemented via separate DIN rail module

## Commercial data

Item number	2902661
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C420
Product key	DK271C
GTIN	4046356670623
Weight per piece (including packing)	1,376.3 g
Weight per piece (excluding packing)	1,370 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### 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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### Product properties

Product type	Module carrier
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#### Insulation characteristics: Air clearances and creepage distances

Insulation	Basic insulation
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### Electrical properties

Max. permissible current	800 mA (Signal/channel)
Nominal voltage $U_N$	24 V DC ((19.7 V ... 30 V))

#### Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

#### Supported controller: YOKOGAWA CENTUM VP

Suitable I/O card	AAI141
	AAI543

### Supply

Designation	Feed-in module
Note	Supply via MACX MCR-PTB (2865625). Supply, decoupled from diodes from both modules.
Fuse	5 A Slow-blow (can be exchanged)
Input voltage	24 V DC
Input voltage range	19.2 V DC ... 30 V DC
Redundant supply	yes, decoupled from diodes
Polarization and surge protection	Yes
Output name	Switching output
Contact switching type	1 N/C contact (alarm = open)
Maximum switching voltage	50 V DC (0.3 A)
	30 V DC (2 A)
	33 V AC (2 A)

### Connection data

#### Power supply

Connection method	Screw connection
Stripping length	7 mm

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Number of connections	1
Number of positions	6
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 12

## Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	40

## Signaling

Status display	1 x red LED (error) 2x green LEDs (PWR1 and PWR2)
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## Dimensions

Width	242 mm
Height	170 mm
Depth	160 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 60 °C (Please observe module specifications)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Shock	15g, according to IEC 60068-2-27
Vibration (operation)	2g, according to IEC 60068-2-6

## Approvals

### UL, USA/Canada

Identification	UL 61010 Listed Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, Group IIC
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## Standards and regulations

### Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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## Mounting

Mounting type	DIN rail mounting
Assembly note	No end clamp
Mounting position	vertical, horizontal

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## Environmental product compliance

### 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.)	No substance above 0.1 wt%
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