

# TC-2KS40-AI16-EX-PR-CS - Module carrier



2905677

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Termination Carrier for redundantly connecting 16 MACX Analog Ex i signal conditioners to analog input cards of the Yokogawa CENTUM VP controller, via two KS40 connectors, 40-pos. Suitable for Yokogawa AAI141 and AAI143 cards.

## Your advantages

- Mechanically decoupled, passive PCB
- 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
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- Cable sets for signal connection are supplied as standard and do not have to be ordered separately

## Commercial data

Item number	2905677
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	DK271C
GTIN	4046356986724
Weight per piece (including packing)	1.685 kg
Weight per piece (excluding packing)	1.685 kg
Country of origin	DE

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## Set consists of

### TC-C-MAX2-SC-31320000 - Cable set

2902425

<https://www.phoenixcontact.com/us/products/2902425>



Cable set for signal transmission on the Termination Carrier for modules from the MACX Analog Ex series. Connection of terminal points 3.1 and 3.2 (signal transmission) to the signal PCB.

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### TC-C-PTB3-SC-SET1 - Cable set

2905216

<https://www.phoenixcontact.com/us/products/2905216>



Cable set for TC-MACX-MCR-PTB power and fault signaling module (Item No. 2904673), for use on the Termination Carrier for signal conditioners from the MACX Analog Ex series.

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2905677

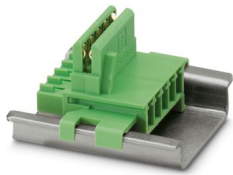
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## ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - DIN rail bus connector

2709561

<https://www.phoenixcontact.com/us/products/2709561>



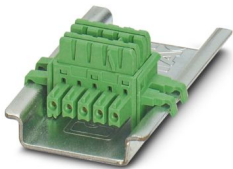
DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

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## ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - DIN rail bus connector

2869728

<https://www.phoenixcontact.com/us/products/2869728>



DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

## 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
Insulation characteristics: Air clearances and creepage distances	
Insulation	Basic insulation
Overvoltage category	II
Pollution degree	2

### Electrical properties

Max. permissible current	1 A (Signal/channel)
Nominal voltage $U_N$	< 30 V DC (Per signal/channel)

#### 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
	AAI143

### Supply

Designation	Feed-in module
Note	Power supply via 2904673 TC-MACX-MCR-PTB power supply and error signaling module.
Fuse	2x 2.5 A on PCB, slow-blow (replaceable)
Input voltage	24 V DC
Input voltage range	19.2 V DC ... 30 V DC
Input current	≤ 2 A
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

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## Power supply

Connection method	Screw connection
Stripping length	7 mm
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)

## Dimensions

Width	242 mm
Height	170 mm
Depth	159.5 mm

## Material specifications

Flammability rating according to UL 94	V0
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## 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

## Standards and regulations

# TC-2KS40-AI16-EX-PR-CS - Module carrier



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## 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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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905677>

 <b>UL Listed</b> Approval ID: E330267				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>cUL Listed</b> Approval ID: E330267				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>cUL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>UL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

# TC-2KS40-AI16-EX-PR-CS - Module carrier



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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

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(c)-I

### 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.)	Lead(CAS: 7439-92-1)
SCIP	4a86dde0-ef2c-428b-ad32-418364e7404d

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Phoenix Contact USA  
 586 Fulling Mill Road  
 Middletown, PA 17057, United States  
 (+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)