

TC-2KS40-AO8-EX-PR-RS - Module carrier



2905204

<https://www.phoenixcontact.com/us/products/2905204>

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.



Termination Carrier for redundantly connecting 8 MACX Analog Ex i output signal conditioners to analog output cards of the Yokogawa ProSafe-RS controller, via two KS40 connectors, 40-pos. Suitable for Yokogawa SAI533 card.

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 | 2905204 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | DK271C |
| GTIN | 4046356950060 |
| Weight per piece (including packing) | 99.99 g |
| Weight per piece (excluding packing) | 99.99 g |
| Country of origin | DE |

TC-2KS40-AO8-EX-PR-RS - Module carrier



2905204

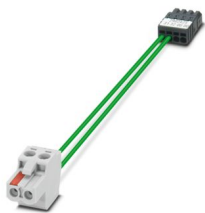
<https://www.phoenixcontact.com/us/products/2905204>

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.

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.

TC-2KS40-AO8-EX-PR-RS - Module carrier

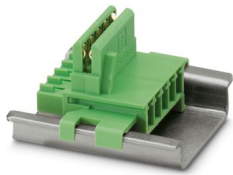
2905204

<https://www.phoenixcontact.com/us/products/2905204>

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

2709561

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

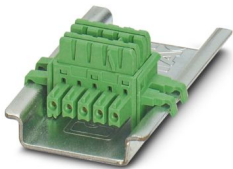


DIN rail bus connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

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. |
|--------------------|--|

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 ProSafe-RS

| | |
|-------------------|--------|
| Suitable I/O card | SAI533 |
|-------------------|--------|

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

Power supply

TC-2KS40-AO8-EX-PR-RS - Module carrier



2905204

<https://www.phoenixcontact.com/us/products/2905204>

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Number of connections | 1 |
| Number of positions | 6 |
| Conductor cross-section rigid | 0.14 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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 | 147 mm |
| Height | 170 mm |
| Depth | 159.5 mm |

Material specifications

| | |
|--|----|
| Flammability rating according to UL 94 | V0 |
|--|----|

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

Air clearances and creepage distances

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

TC-2KS40-AO8-EX-PR-RS - Module carrier



2905204

<https://www.phoenixcontact.com/us/products/2905204>

Mounting

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

TC-2KS40-AO8-EX-PR-RS - Module carrier



2905204

<https://www.phoenixcontact.com/us/products/2905204>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905204>

|  UL Listed Approval ID: E330267 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 50 V | 1 A | - | - |

|  cUL Listed Approval ID: E330267 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 50 V | 1 A | - | - |

|  cUL Listed Approval ID: E199827 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 50 V | 1 A | - | - |

|  UL Listed 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-AO8-EX-PR-RS - Module carrier



2905204

<https://www.phoenixcontact.com/us/products/2905204>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

UNSPSC

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

2905204

<https://www.phoenixcontact.com/us/products/2905204>

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 | 38ac2c51-967b-4b4a-9fbc-c2443ad0465f |

Phoenix Contact 2026 © - 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