

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

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 16 PSR-ETP modules to digital output cards of the Yokogawa ProSafe-RS controller, via two KS50 connectors, 50-pos. Solution for Fire & Gas (F&G) applications. Suitable for Yokogawa SDV541 card.

Your advantages

- Mechanically decoupled PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- Redundant system connection, 50-pos. (KS/AKB-compatible)
- Simple or redundant supply, decoupled from diode, protected against polarity reversal
- Error message in the event of power supply failure or fuse fault
- Relay output (N/O contact, floating) and flashing LED for error message
- Undervoltage monitoring at input at < 18 V DC
- Suitable for safe state on applications
- Cable sets for signal connection are not supplied as standard and must be ordered separately

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2904112 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | CK275C |
| Catalog page | Page 525 (C-5-2017) |
| GTIN | 4046356783736 |
| Weight per piece (including packing) | 1.447 g |
| Weight per piece (excluding packing) | 1.447 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|-------------------------|--|
| General | For proper use, the specifications of the installation directive (see Downloads) must be observed. |
| Utilization restriction | |
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |

Product properties

| | |
|---|------------------|
| Product type | Module carrier |
| Insulation characteristics | |
| Insulation | Basic insulation |
| Insulation characteristics: Air clearances and creepage distances | |
| Insulation | Basic insulation |

Electrical properties

| | |
|--|---------------------------------------|
| Max. permissible current | 1 A (Per signal/channel) |
| Nominal voltage U_N | 24 V DC (21.1 V ... 26.4 V) |
| 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 | SDV541 |
| Supply | |
| Designation | Device supply |
| Fuse | 2.5 A on PCB, slow-blow (replaceable) |
| Input voltage range | 21.1 V DC ... 26.4 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) |

Connection data

| | |
|-----------------------|------------------|
| Power supply | |
| Connection method | Screw connection |
| Stripping length | 7 mm |
| Number of connections | 1 |
| Number of positions | 6 |

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

| | |
|----------------------------------|--|
| 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 | 50 |

Signaling

| | |
|----------------|-------------------------------|
| Status display | 2 x red LED (error) |
| | 2x green LEDs (PWR1 and PWR2) |

Dimensions

| | |
|--------|----------|
| Width | 304 mm |
| Height | 170 mm |
| Depth | 159.5 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|----------------------------------|
| Degree of protection | IP00 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| 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 |
|-----------------------|--------------|

Mounting

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

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/2904112>

| | |
|--|---|
| | EAC Approval ID: RU C-DE.A*30.B.01742 |
|--|---|

| | | | | |
|--|--|-----------------------|-------------------|----------------------|
| | UL Listed Approval ID: FILE E 330267 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 50 V | 1 A | - | - |

| | | | | |
|--|---|-----------------------|-------------------|----------------------|
| | cUL Listed Approval ID: FILE E 330267 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 50 V | 1 A | - | - |

| | | | | |
|--|---|-----------------------|-------------------|----------------------|
| | cUL Listed Approval ID: FILE E 199827 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 50 V | 1 A | - | - |

| | | | | |
|--|--|-----------------------|-------------------|----------------------|
| | UL Listed Approval ID: FILE E 199827 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 50 V | 1 A | - | - |

| |
|---------------------|
| cULus Listed |
|---------------------|

| |
|---------------------|
| cULus Listed |
|---------------------|

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

Classifications

ECLASS

ECLASS-11.0

27141152

ETIM

ETIM 8.0

EC002780

UNSPSC

UNSPSC 21.0

39121400

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

Mandatory accessories

PSR-SCP- 24DC/ETP/1X1 - Coupling relay

2986711

<https://www.phoenixcontact.com/pc/products/2986711>



Coupling relay for SIL 3 low demand applications, couples digital output signals to the periphery, 1 enabling current path, module for F&G applications, test pulse filter, plug-in screw connection, 17.5 mm width

TC-C-PSR3-SC-A100V+A20000 - Cable set

2903391

<https://www.phoenixcontact.com/pc/products/2903391>



Cable set for signal transmission and power supply on the Termination Carrier for coupling relays from the PSR-ETP series. Connection of terminal points A1 and A2 (signal transmission) as well as V+ (power supply) to the signal PCB. Suitable for PSR-SCP-24DC/ETP/1X1 (Item No. 2986711).

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



PSR-PC50-1NO-1DO-24DC-SC - Coupling relay

2904664

<https://www.phoenixcontact.com/pc/products/2904664>



Coupling relay for SIL 3 low demand applications, couples digital output signals to the periphery, 1 enabling current path, module for F&G applications, test pulse filter, plug-in screw connection, 17.5 mm width

TC-C-PCX3-SC-A100V+A20000 - Cable set

2906003

<https://www.phoenixcontact.com/pc/products/2906003>



Cable set for signal transmission and power supply on the Termination Carrier for PSR-PC50-1NO-1DO-24DC-SC (Item No. 2904664). Connection of terminal points A1 and A2 (signal transmission) as well as V+ (power supply) to the signal PCB.

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



TC-C-PTSM-50-00000000J1J1 - Plug

2903388

<https://www.phoenixcontact.com/pc/products/2903388>



Jumper plug, for looping through the confirmation contacts of unused module slots. Use on the termination carrier for safety relay modules from the PSR-FSP series.

FLK 50-PA/EZ-DR/KS/ 100/YUC - Front adapter

2900991

<https://www.phoenixcontact.com/pc/products/2900991>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>

FLK 50-PA/EZ-DR/KS/ 200/YUC - Front adapter

2314299

<https://www.phoenixcontact.com/pc/products/2314299>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

FLK 50-PA/EZ-DR/KS/ 300/YUC - Front adapter

2314309

<https://www.phoenixcontact.com/pc/products/2314309>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>

FLK 50-PA/EZ-DR/KS/ 400/YUC - Front adapter

2314312

<https://www.phoenixcontact.com/pc/products/2314312>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

FLK 50-PA/EZ-DR/KS/ 500/YUC - Front adapter

2321499

<https://www.phoenixcontact.com/pc/products/2321499>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/ 600/YUC - Front adapter

2314927

<https://www.phoenixcontact.com/pc/products/2314927>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 6.0 m

FLK 50-PA/EZ-DR/KS/ 700/YUC - Front adapter

2321509

<https://www.phoenixcontact.com/pc/products/2321509>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>

FLK 50-PA/EZ-DR/KS/ 800/YUC - Front adapter

2314930

<https://www.phoenixcontact.com/pc/products/2314930>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

FLK 50-PA/EZ-DR/KS/ 900/YUC - Front adapter

2321512

<https://www.phoenixcontact.com/pc/products/2321512>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/1000/YUC - Front adapter

2314325

<https://www.phoenixcontact.com/pc/products/2314325>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

FLK 50-PA/EZ-DR/KS/1100/YUC - Front adapter

2321389

<https://www.phoenixcontact.com/pc/products/2321389>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 11.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/1200/YUC - Front adapter

2321525

<https://www.phoenixcontact.com/pc/products/2321525>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

FLK 50-PA/EZ-DR/KS/1300/YUC - Front adapter

2321392

<https://www.phoenixcontact.com/pc/products/2321392>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 13.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/1400/YUC - Front adapter

2321402

<https://www.phoenixcontact.com/pc/products/2321402>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 14.0 m

FLK 50-PA/EZ-DR/KS/1500/YUC - Front adapter

2314338

<https://www.phoenixcontact.com/pc/products/2314338>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/1600/YUC - Front adapter

2321538

<https://www.phoenixcontact.com/pc/products/2321538>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 16.0 m

FLK 50-PA/EZ-DR/KS/1700/YUC - Front adapter

2321541

<https://www.phoenixcontact.com/pc/products/2321541>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 17.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/1800/YUC - Front adapter

2321554

<https://www.phoenixcontact.com/pc/products/2321554>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 18.0 m

FLK 50-PA/EZ-DR/KS/1900/YUC - Front adapter

2321567

<https://www.phoenixcontact.com/pc/products/2321567>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 19.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>



FLK 50-PA/EZ-DR/KS/2000/YUC - Front adapter

2314503

<https://www.phoenixcontact.com/pc/products/2314503>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

FLK 50-PA/EZ-DR/KS/2500/YUC - Front adapter

2314516

<https://www.phoenixcontact.com/pc/products/2314516>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

TC-2KS50-DO16-F&G-AR-RS - Module carrier

2904112

<https://www.phoenixcontact.com/pc/products/2904112>

FLK 50-PA/EZ-DR/KS/3000/YUC - Front adapter

2314529

<https://www.phoenixcontact.com/pc/products/2314529>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

FLK 50-PA/EZ-DR/KS/5000/YUC - Front adapter

2318981

<https://www.phoenixcontact.com/pc/products/2318981>



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

Accessories

TC-2KS50-DO16-F&G-AR-RS - Module carrier



2904112

<https://www.phoenixcontact.com/pc/products/2904112>

EMLF (108XE)R - Label, highly flexible

0800549

<https://www.phoenixcontact.com/pc/products/0800549>



Label, highly flexible, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 108 x 48000 mm, Number of individual labels: 1

ZBF 15:UNBEDRUCKT - Zack Marker strip, flat

0811202

<https://www.phoenixcontact.com/pc/products/0811202>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 15 mm, lettering field size: 15 x 5.2 mm, Number of individual labels: 5

Phoenix Contact 2023 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com