

TC-2KS50-DO16-ESD-AR-RS - Module carrier



2904113

<https://www.phoenixcontact.com/us/products/2904113>

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Termination carrier for redundantly connecting 16 PSR-FSP modules to digital output cards of the Yokogawa ProSafe-RS controller, via two KS50 connectors, 50-pos. Solution for Emergency Shut Down (ESD) 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 off applications
- Cable sets for signal connection are not supplied as standard and must be ordered separately

Commercial data

Item number	2904113
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C420
Product key	CK274C
Catalog page	Page 525 (C-5-2017)
GTIN	4046356783743
Weight per piece (including packing)	1,447 g
Weight per piece (excluding packing)	1,447 g
Customs tariff number	85369010
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 ... 26.4 V
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

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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
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Mounting

Mounting type	DIN rail mounting
Assembly instructions	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/2904113>

 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	-	-

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Classifications

ECLASS

ECLASS-11.0	27141152
ECLASS-13.0	27141152
ECLASS-12.0	27141152

ETIM

ETIM 8.0	EC002780
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UNSPSC

UNSPSC 21.0	39121400
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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"

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Mandatory accessories

PSR-SCP- 24DC/FSP/2X1/1X2 - Safety relays

2986960

<https://www.phoenixcontact.com/us/products/2986960>



Safe coupling relay for SIL 3 high- and low-demand applications, couples digital output signals to the periphery, two enabling current paths, one signal contact, module for safe state off applications, integrated test pulse filter, plug-in screw connection, width: 17.5 mm

PSR-SCP- 24DC/FSP2/2X1/1X2 - Coupling relay

2986575

<https://www.phoenixcontact.com/us/products/2986575>



Safe coupling relay for SIL 2 high- and low-demand applications, couples digital output signals to the periphery, two enabling current paths, one signal contact, module for safe state off applications, integrated test pulse filter, plug-in screw connection, width: 17.5 mm

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PSR-SCP- 24DC/FSP/1X1/1X2 - Coupling relay

2981978

<https://www.phoenixcontact.com/us/products/2981978>



Safe coupling relay for SIL 3 high- and low-demand applications, couples digital output signals to the periphery, one enabling current path, one signal contact, module for safe state off applications, test pulse filter, fuse, plug-in screw connection, width: 17.5 mm

TC-C-PSR3-SC-A10000A20000 - Cable set

2903389

<https://www.phoenixcontact.com/us/products/2903389>



Cable set for signal transmission on the Termination Carrier for coupling relays from the PSR-FSP series. Connection of terminal points A1 and A2 (signal transmission) to the signal PCB. Suitable for PSR-SCP-24DC/FSP/1X1/1X2 (Item No. 2981978).

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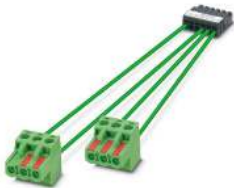
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TC-C-PSR3-SC-A10000A23132 - Cable set

2903390

<https://www.phoenixcontact.com/us/products/2903390>



Cable set for signal transmission on the Termination Carrier for coupling relays from the PSR-FSP series. Connection of terminal points A1 and A2 (signal transmission) as well as 31 and 32 (confirmation). Suitable for PSR-SCP-24DC/FSP/2X1/1X2 (Item No. 2986960) and PSR-SCP-24DC/FSP2/2X1/1X2 (Item No. 2986575).

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

2903388

<https://www.phoenixcontact.com/us/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.

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

2900991

<https://www.phoenixcontact.com/us/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

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

2314299

<https://www.phoenixcontact.com/us/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

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

2314309

<https://www.phoenixcontact.com/us/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

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

2314312

<https://www.phoenixcontact.com/us/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

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

2321499

<https://www.phoenixcontact.com/us/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

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

2314927

<https://www.phoenixcontact.com/us/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

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

2321509

<https://www.phoenixcontact.com/us/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

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

2314930

<https://www.phoenixcontact.com/us/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

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

2321512

<https://www.phoenixcontact.com/us/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

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

2314325

<https://www.phoenixcontact.com/us/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

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

2321389

<https://www.phoenixcontact.com/us/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

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

2321525

<https://www.phoenixcontact.com/us/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

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

2321392

<https://www.phoenixcontact.com/us/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

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

2321402

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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

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

2314338

<https://www.phoenixcontact.com/us/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

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

2321538

<https://www.phoenixcontact.com/us/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

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

2321541

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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

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

2321554

<https://www.phoenixcontact.com/us/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

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

2321567

<https://www.phoenixcontact.com/us/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

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

2314503

<https://www.phoenixcontact.com/us/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

TC-2KS50-DO16-ESD-AR-RS - Module carrier

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

2314516

<https://www.phoenixcontact.com/us/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

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

2314529

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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

TC-2KS50-DO16-ESD-AR-RS - Module carrier



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

2318981

<https://www.phoenixcontact.com/us/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

EMLF (108XE)R - Label, highly flexible

0800549

<https://www.phoenixcontact.com/us/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

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ZBF 15:UNBEDRUCKT - Zack Marker strip, flat

0811202

<https://www.phoenixcontact.com/us/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

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