

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

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 783743
GTIN	4046356783743
Custom tariff number	85369010
Country of origin	Germany

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Technical data

Dimensions

Width	304 mm
Height	170 mm
Depth	160 mm

Ambient conditions

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

General

Nominal voltage U_N	24 V DC (21.1 V ... 26.4 V)
Max. permissible current	1 A (Per signal/channel)

Supply

Designation	Device supply
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 type	1 N/C contact (alarm = open)
Fuse	2.5 A on PCB, slow-blow (replaceable)
Status display	2 x red LED (error) 2x green LEDs (PWR1 and PWR2)

Connection data

Connection name	Power supply
Connection method	Screw connection
Stripping length	7 mm
Number of connections	1
Number of positions	6
Conductor cross section solid	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

Connection data 2

Connection name	Controller level
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Technical data

Connection data 2

Connection method	Yokogawa KS-compatible
Number of connections	2
Number of positions	50

Standards and Regulations

Designation	Air clearances and creepage distances
Standards/regulations	DIN EN 50178
Rated insulation voltage	50 V
Rated surge voltage	0.5 kV
Insulation	Basic insulation
Shock	15g, according to IEC 60068-2-27
Vibration (operation)	2g, according to IEC 60068-2-6
UL, USA/Canada	UL 61010 Listed
	Class I, Div. 2, Groups A, B, C, D T4
	Class I, Zone 2, Group IIC

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Classifications

eCl@ss

eCl@ss 10.0.1	27141152
eCl@ss 4.0	40020600
eCl@ss 4.1	40020600
eCl@ss 5.0	27371900
eCl@ss 5.1	27371900
eCl@ss 6.0	27371800
eCl@ss 7.0	27141152
eCl@ss 8.0	27141152
eCl@ss 9.0	27141152

ETIM

ETIM 4.0	EC002780
ETIM 5.0	EC002780
ETIM 6.0	EC002780

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Classifications

ETIM

ETIM 7.0	EC002780
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UNSPSC

UNSPSC 6.01	30211901
UNSPSC 7.0901	39121501
UNSPSC 11	39121501
UNSPSC 12.01	39121501
UNSPSC 13.2	39121432
UNSPSC 18.0	39121432
UNSPSC 19.0	39121432
UNSPSC 20.0	39121432
UNSPSC 21.0	39121432

Approvals

Approvals


Approvals


UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330267
Nominal voltage UN	50 V		
Nominal current IN	1 A		

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330267
Nominal voltage UN	50 V		

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Approvals

Nominal current IN	1 A
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EAC		RU C- DE.A*30.B.01742
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cULus Listed	
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Accessories

Necessary add-on products

Safety relays - PSR-SCP- 24DC/FSP/2X1/1X2 - 2986960



Safe coupling relay for SIL 3 high and low demand applications, connects digital output signals to the I/O, 2 enabling current paths, 1 signal contact, module for safe state off applications, integrated test pulse filter, plug-in screw connection, width: 17.5 mm

Coupling relay - PSR-SCP- 24DC/FSP2/2X1/1X2 - 2986575



Safe coupling relay for SIL 2 high and low-demand applications, couples digital output signals to the I/O, 2 enabling current paths, 1 alarm contact, module for safe state off applications, integrated test pulse filter, plug-in screw terminal blocks, width: 17.5 mm

Coupling relay - PSR-SCP- 24DC/FSP/1X1/1X2 - 2981978



Coupling relay for SIL 3 high/low demand applications, couples digital output signals to the periphery, 1 enabling current path, 1 signal contact, module for safe state off applications, test pulse filter, fuse, plug-in screw connection, 17.5 mm width

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Accessories

Cable set - TC-C-PSR3-SC-A10000A20000 - 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 (Order No. 2981978).

Cable set - TC-C-PSR3-SC-A10000A23132 - 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 (Order No. 2986960) and PSR-SCP-24DC/FSP2/2X1/1X2 (Order No. 2986575).

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

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

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

Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Accessories

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

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

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

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

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

Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Accessories

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

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

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

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

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

Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Accessories

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

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

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

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

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

Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Accessories

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

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

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

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

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

Module carrier - TC-2KS50-DO16-ESD-AR-RS - 2904113

Accessories

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

Additional products

Label, highly flexible - EMLF (108XE)R - 0800549



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

Zack Marker strip, flat - ZBF 15:UNBEDRUCKT - 0811202



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