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

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	DK274C
GTIN	4046356783743
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

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.

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area

Product properties

Product type	Module carrier

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
Conductor cross-section rigid	0.14 mm² ... 2.5 mm²

Conductor cross-section flexible	0.14 mm² ... 2.5 mm²
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 note	No end clamp
Mounting position	vertical, horizontal

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2904113

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	-	-

Classifications

ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

ETIM

ETIM 10.0	EC002780

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 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	e79ac243-77e8-4e78-87f6-8bc9a82403d2

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