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Termination Carrier for redundantly connecting 16 MINI Analog signal conditioners to analog input cards of the Yokogawa Centum VP controller, via KS40 connector, 40-pos. Suitable for Yokogawa AAI141 and AAI143 cards

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



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 950732
GTIN	4046356950732
Weight per Piece (excluding packing)	1,220.000 g
Custom tariff number	85366990
Country of origin	Germany
Note	Made to Order (non-returnable)

Technical data

Dimensions

Width	148 mm
Height	170 mm
Depth	160 mm

Ambient conditions



Technical data

Ambient conditions

Ambient temperature (operation)	-20 °C 60 °C (Please observe module specifications)
Ambient temperature (storage/transport)	-40 °C 80 °C
Maximum altitude	≤ 2000 m
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	< 30 V DC (Per signal/channel)
Max. permissible current	23 mA (Signal/channel)

Supply

Designation	Power module
Note	Power supply via 2902958 MINI MCR-SL-PTB-FM power terminal and 2902961 MINI MCR-SL-FM-RC-NC error signaling module.
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 type	1 N/C contact (alarm = open)
Maximum switching voltage	30 V DC (50 mA)
Fuse	2x 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 mm² 2.5 mm²
Conductor cross section flexible	0.14 mm² 2.5 mm²
Conductor cross section AWG	24 12

Connection data 2

Connection name	Controller level
Connection method	Yokogawa KS-compatible
Number of connections	2
Number of positions	40



Technical data

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
Pollution degree	2
Overvoltage category	II
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
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Articles in set

Cable set - TC-C-2MIN-AI-05061516 - 2905224



Cable set for signal transmission on the termination carrier for modules from the MINI Analog series. Connection of terminal points 5 and 6 of two adjacent MINI Analog modules to the signal PCB via a 4-pos. PTSM connector.

Cable set - TC-C-PTB1-AI-SET1 - 2905217



Cable set for MINI MCR-SL-PTB-FM power module (Order No. 2902958) and MINI MCR-SL-FM-RC-NC error message module (Order No. 2902961), for use on the termination carrier for modules from the MINI Analog series.

DIN rail bus connectors - ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - 2869728



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



Articles in set

Classifications

eCl@ss

eCl@ss 4.0	27250313
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eCl@ss 5.1	27371600
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ETIM

ETIM 4.0	EC002780
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ETIM 6.0	EC002780
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UNSPSC

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



Approvals

UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 330		FILE E 330267
Nominal voltage UN			50 V	
Nominal current IN			1 A	

cUL Listed	CUL	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	

EAC	RU C- DE.A*30.B.01742
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cULus Listed cULus

Accessories

Necessary add-on products

Repeater power supply - MINI MCR-SL-RPSS-I-I - 2864079



MCR repeater power supply with HART transmission, input signal 4...20 mA, output signal 4...20 mA, with screw connection.

Monitoring module - MINI MCR-SL-FM-RC-NC - 2902961



The fault monitoring module is used to evaluate and report group errors from the fault monitoring system and to monitor the supply voltages. The error is reported via an N/O contact. Screw connection, standard configuration.



Accessories

Power terminal block - MINI MCR-SL-PTB-FM - 2902958



The MINI MCR-SL-PTB-FM(-SP) power terminal block is used to supply the supply voltage to the DIN rail connector. The FM power terminal block offers the additional function of monitoring in combination with the fault monitoring module. Screw connection.

Signal conditioner - MINI MCR-SL-UI-UI - 2864383



MCR 3-way signal conditioner, input/output can be configured via DIP switches, for the electrical isolation of analog signals, with screw connection, order configuration. Replacement part: 2902036 MINI MCR-2-UI-UI-C.

Signal conditioner - MINI MCR-SL-SHUNT-UI - 2810858



MCR 3-way signal conditioner, with configurable input/output, for electrical isolation and conversion of analog signals in the mV range, both unipolar and bipolar with screw connection, pre-configured. Replacement part: 2902018 MINI MCR-2-U-UI-C.

Signal conditioner - MINI MCR-SL-U-UI - 2864053



MCR 3-way signal conditioner, with configurable input/output, for electrical isolation and conversion of analog signals up to 30 V with screw connection, order configuration. Replacement part: 2902036 MINI MCR-2-UI-UI-C.

Signal conditioner - MINI MCR-SL-I-I - 2864406



MCR 3-way isolating amplifier, for electrical isolation of analog signals, with screw connection, input signal: 0(4) mA ... 20 mA, output signal: 0(4) mA ... 20 mA



Accessories

Loop-powered isolators - MINI MCR-SL-1CP-I-I - 2864419



MCR loop-powered isolator, 1-channel, for the electrical isolation of current signals without auxiliary power, with screw connection

Loop-powered isolators - MINI MCR-SL-2CP-I-I - 2864655



MCR passive isolator, 2-channel, for the electrical isolation of current signals without auxiliary power, with screw connection

Signal conditioner - MINI MCR-SL-UI-I-LP-NC - 2902829



2-way loop-powered isolating amplifier (supplied on the output side), can be configured via DIP switches, with screw connection technology and standard configuration.

Resistance thermometer measuring transducer - MINI MCR-RTD-UI-NC - 2902849



Configurable temperature transducer for the connection of 2, 3, and 4-conductor resistance thermometers and resistance-type sensors. Can be configured via DIP switches or, with extended functionality, using the software. Screw connection, standard configuration.

Temperature measuring transducer - MINI MCR-SL-PT100-UI-200 - 2864309



MCR temperature transducer, can be configured, for Pt 100 temperature sensors, with screw connection, order configuration. Replacement part: 2902048 MINI MCR-2-RTD-UI-C.



Accessories

Resistance thermometer measuring transducer - MINI MCR-SL-PT100-UI - 2864435



MCR temperature transducer for Pt 100 temperature sensors, configured via DIP switches, with screw connection, pre-configured (please observe the order key). Replacement part: 2902048 MINI MCR-2-RTD-UI-C.

Temperature measuring transducer - MINI MCR-SL-PT100-LP - 2810298



Loop-powered temperature transducer for Pt 100 temperature sensors, configured via DIP switches, with screw connection, pre-configured (please observe the order key). Replacement part: 2810308 MINI MCR-SL-PT100-LP-NC.

Thermocouple measuring transducer - MINI MCR-TC-UI-NC - 2902851



Configurable temperature transducer for the connection of thermocouples. Can be configured via DIP switches or, with extended functionality, using the software. Screw connection, standard configuration.

Resistance/potiposition transducer - MINI MCR-SL-R-UI - 2864095



MCR potiposition transducer for conversion of potentiometer positions into a standard analog signal, 0 Ω input... 100 Ω to 0 k Ω ... 100 k Ω

Front adapters - FLK 40-PA/EZ-DR/KS/ 100/YUC - 2322786



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/ 200/YUC - 2314341



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 300/YUC - 2314354



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 400/YUC - 2314367



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 500/YUC - 2321570



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 600/YUC - 2314943



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 6.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/ 700/YUC - 2321583



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 800/YUC - 2314956



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/ 900/YUC - 2321415



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1000/YUC - 2314370



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1100/YUC - 2321428



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 11.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/1200/YUC - 2321431



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1300/YUC - 2321444



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 13.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1400/YUC - 2321457



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 14.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1500/YUC - 2314383



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1600/YUC - 2321596



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 16.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/1700/YUC - 2321606



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 17.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1800/YUC - 2321619



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 18.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/1900/YUC - 2321622



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 19.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/2000/YUC - 2314532



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

Front adapters - FLK 40-PA/EZ-DR/KS/2500/YUC - 2314545



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m



Accessories

Front adapters - FLK 40-PA/EZ-DR/KS/3000/YUC - 2314558



Cast front adapter with attached round cable and a 40-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 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

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