TC-D37SUB-AIO16-EX-PS-UNI - Module carrier

2902932

https://www.phoenixcontact.com/us/products/2902932

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Universal termination carrier for connecting 16 MACX Analog Ex i signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection

Your advantages

- Mechanically decoupled, passive PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- D-SUB pin strip system connection, 37-pos. (1:1 connection)
- Simple or redundant supply (decoupled from diode, protected against polarity reversal) and monitoring function implemented via separate DIN rail module
- Interface for connection to HART multiplexer
- Cable sets for signal connection are supplied as standard and do not have to be ordered separately

Commercial data

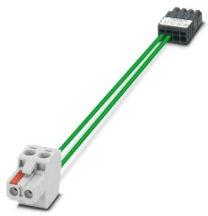
Item number	2902932
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	C420
Product key	DK271W
GTIN	4046356697989
Weight per piece (including packing)	1,386.4 g
Weight per piece (excluding packing)	444.44 g
Customs tariff number	85366990
Country of origin	DE

Set consists of

TC-C-MAX2-SC-31320000 - Cable set

2902425

https://www.phoenixcontact.com/us/products/2902425



Cable set for signal transmission on the Termination Carrier for modules from the MACX Analog Ex series. Connection of terminal points 3.1 and 3.2 (signal transmission) to the signal PCB.

TC-C-PTB3-SC-SET1 - Cable set

2905216

https://www.phoenixcontact.com/us/products/2905216

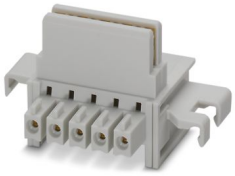


Cable set for TC-MACX-MCR-PTB power and fault signaling module (Item No. 2904673), for use on the Termination Carrier for signal conditioners from the MACX Analog Ex series.

ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connector

1090049

https://www.phoenixcontact.com/us/products/1090049

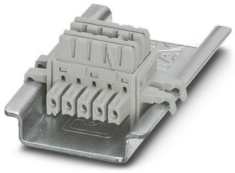


DIN rail bus connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5.., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, type of packaging: packed in cardboard, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 5 parallel contacts

ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connector

2695439

https://www.phoenixcontact.com/us/products/2695439



DIN rail bus connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

Technical data

Notes

Order information:	2318457 VIP-CAB-FLK14-0,14/... : < 3 m
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
Overvoltage category	II
Pollution degree	2

Electrical properties

Max. permissible current	23 mA (Signal/channel)
Nominal voltage U_N	< 30 V DC (Per signal/channel)

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supported controller: universal

Suitable I/O card	universal

Supply

Designation	Feed-in module
Note	Power supply via 2904673 TC-MACX-MCR-PTB power supply and error signaling module.
Fuse	2x 2.5 A on PCB, slow-blow (replaceable)
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 switching type	1 N/C contact (alarm = open)
Maximum switching voltage	50 V DC (0.3 A)
	30 V DC (2 A)

	33 V AC (2 A)

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	D-SUB pin strip
Number of connections	1
Number of positions	37

X11

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Note	For connecting 16 HART devices to HART multiplexers

X12

Connection method	IDC/FLK pin strip
Number of connections	1
Number of positions	14
Note	For connecting a second TC-D37SUB-AIO16-EX-PS-UNI (additional 16 HART channels)

Signaling

Status display	1 x red LED (error)
	2x green LEDs (PWR1 and PWR2)

Dimensions

Width	242 mm
Height	170 mm
Depth	159.5 mm

Material specifications

Flammability rating according to UL 94	V0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00

Ambient temperature (operation)	-20 °C ... 60 °C (Please observe module specifications)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
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

ATEX

Identification	Ⓔx II 3 G Ex nA IIC T4 Gc X

UKCA Ex (UKEX)

Identification	Ⓔx II 3 G Ex nA IIC T4 Gc
Certificate	PxCIF21UKEX2924854X

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

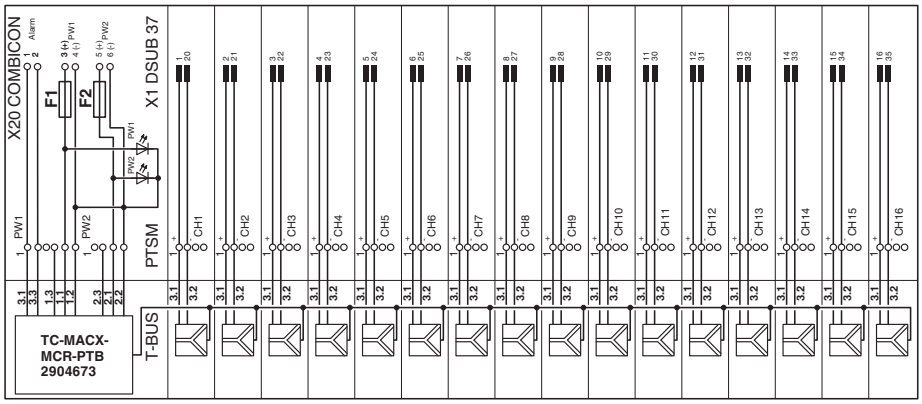
Standards/regulations	EN 60664-1

Mounting

Mounting type	DIN rail mounting
Assembly note	No end clamp
Mounting position	vertical, horizontal

Drawings

Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2902932

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	5367232d-eb34-4a95-9e7c-2ee1528245e5

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