

# 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

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## 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.

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### 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.

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



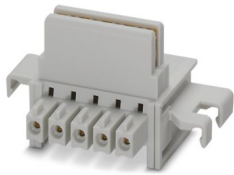
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## ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connector

1090049

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



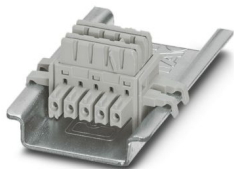
DIN rail bus connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, type of packaging: packed in cardboard, Item with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

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## 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
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### Product properties

Product type	Module carrier
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### 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
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### 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)
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## 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP00
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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	⊕ II 3 G Ex nA IIC T4 Gc X
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### UKCA Ex (UKEX)

Identification	⊕ 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
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## Mounting

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

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## Drawings

Circuit diagram





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## Approvals

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

 <b>UL Listed</b> Approval ID: E330267				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>cUL Listed</b> Approval ID: E330267				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>cUL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

 <b>UL Listed</b> Approval ID: E199827				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	50 V	1 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27141152
ECLASS-15.0	27141152

### ETIM

ETIM 10.0	EC002780
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### UNSPSC

UNSPSC 21.0	39121400
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## 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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Phoenix Contact USA  
 586 Fulling Mill Road  
 Middletown, PA 17057, United States  
 (+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)