

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



2902932

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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 |

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



2902932

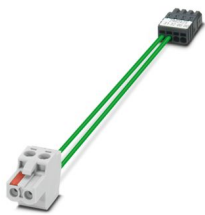
<https://www.phoenixcontact.com/us/products/2902932>

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.

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



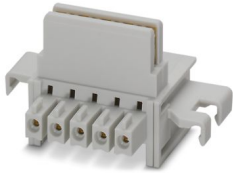
2902932

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

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

1090049

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

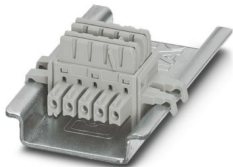


DIN rail bus connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, type of packaging: packed in cardboard, Item with 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 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.14 mm ² ... 2.5 mm ² |
| 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 |
|----------------------|------|

2902932

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

| | |
|---|---|
| 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 |
|----------------|----------------------------|

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 |
|-----------------------|------------|

Mounting

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

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



2902932

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

Drawings

Circuit diagram





2902932


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


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 | - | - |

2902932

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

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27141152 |
| ECLASS-15.0 | 27141152 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002780 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

2902932

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

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 |

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
 586 Fulling Mill Road
 Middletown, PA 17057, United States
 (+717) 944-1300
info@phoenixcon.com