

# 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                             |

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



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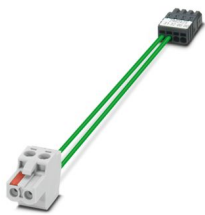
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## Set consists of

### 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.

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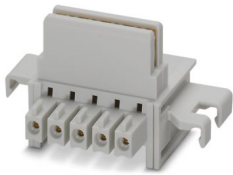
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## ME 17,5 TBUS 1,5/ 5-ST-3,81 GY - DIN rail bus connector

1090049

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



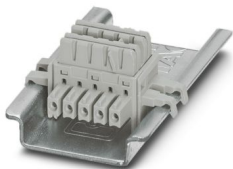
DIN rail bus connector, color: gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-17,5..., pitch: 3.81 mm, mounting: DIN rail mounting, locking: without, mounting method: without, type of packaging: packed in cardboard, Item with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

### 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)<br>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 <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 |
|--|----|

## 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 |
|----------------|----------------------------|

### 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 |

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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><br>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><br>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><br>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><br>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 |
|-----------|----------|

### 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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