

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



2902934

<https://www.phoenixcontact.com/us/products/2902934>

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Universal termination carrier for connecting 16 MINI Analog 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 | 2902934 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | C420 |
| Product key | DK273C |
| GTIN | 4046356697798 |
| Weight per piece (including packing) | 1,190.1 g |
| Weight per piece (excluding packing) | 1,190.1 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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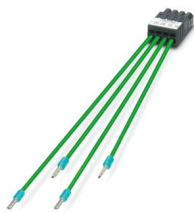
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Set consists of

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

2905224

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

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

2905217

<https://www.phoenixcontact.com/us/products/2905217>



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

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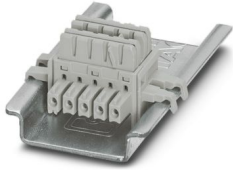


ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connector

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 2902958 MINI MCR-SL-PTB-FM power terminal and 2902961 MINI MCR-SL-FM-RC-NC 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 | 30 V DC (50 mA) |

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-M-PS-UNI (additional 16 HART channels) |

Signaling

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

Dimensions

| | |
|--------|----------|
| Width | 136 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) |

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| | |
|---|----------------------------------|
| 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 | PxCIF21UKEX2902933X |

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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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2902934>

|  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 | - | - |

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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 | 4e5aa170-520c-4778-9564-694c8ae193a0 |

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