

# Module carrier - TC-2D37SUB-ADIO32-2EX-P-UNI - 2904684

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Universal Termination Carrier for connecting 16 two-channel MACX Analog Ex i signal conditioners to digital or analog I/O cards, via two D-SUB connectors, 37-pos. (1:1 connection)

## Your advantages

- Mechanically decoupled, passive PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- System connection via two D-SUB pin strips, 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
- Cable sets for signal connection are supplied as standard and do not have to be ordered separately



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 879651 |
| GTIN         | 4046356879651   |

## Technical data

### Dimensions

|        |        |
|--------|--------|
| Width  | 242 mm |
| Height | 170 mm |
| Depth  | 160 mm |

### Ambient conditions

|   |   |
|---|---|
| Ambient temperature (operation)         | -20 °C ... 60 °C (Please observe module specifications) |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C  |
| Maximum altitude                        | ≤ 2000 m  |
| Permissible humidity (operation)        | 5 % ... 95 % (non-condensing)                           |
| Degree of protection                    | IP00  |

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## Technical data

### Ambient conditions

|                       |                                  |
|-----------------------|----------------------------------|
| Shock                 | 15g, according to IEC 60068-2-27 |
| Vibration (operation) | 2g, according to IEC 60068-2-6   |

### General

|                          |                                |
|--------------------------|--------------------------------|
| Nominal voltage $U_N$    | < 30 V DC (Per signal/channel) |
| Max. permissible current | 1 A (Signal/channel)           |

### Supply

|                                   |   |
|-----------------------------------|---|
| Designation                       | Power module  |
| Note                              | Power supply via 2904673 TC-MACX-MCR-PTB power supply and error signaling module. |
| 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 type                      | 1 N/C contact (alarm = open)  |
| Maximum switching voltage         | 50 V DC (0.3 A)   |
| Fuse                              | 2x 2.5 A on PCB, slow-blow (replaceable)  |
| Status display                    | 1 x red LED (error)   |
|                                   | 2x green LEDs (PWR1 and PWR2)   |

### Connection data

|                                  |  |
|----------------------------------|--|
| Connection name                  | Power supply                                 |
| Connection method                | Screw connection                             |
| Stripping length                 | 7 mm   |
| Number of connections            | 1  |
| Number of positions              | 6  |
| Conductor cross section solid    | 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                                    |

### Connection data 2

|                       |                  |
|-----------------------|------------------|
| Connection name       | Controller level |
| Connection method     | D-SUB pin strip  |
| Number of connections | 2                |
| Number of positions   | 37               |

### Standards and Regulations

|                          |                                       |
|--------------------------|---------------------------------------|
| Designation              | Air clearances and creepage distances |
| Standards/regulations    | DIN EN 50178                          |
| Rated insulation voltage | 50 V                                  |
| Rated surge voltage      | 0.5 kV                                |

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## Technical data

### Standards and Regulations

|                       |                                       |
|-----------------------|---------------------------------------|
| Insulation            | Basic insulation                      |
| Pollution degree      | 2                                     |
| Overvoltage category  | II                                    |
| Shock                 | 15g, according to IEC 60068-2-27      |
| Vibration (operation) | 2g, according to IEC 60068-2-6        |
| UL, USA/Canada        | UL 61010 Listed                       |
|                       | Class I, Div. 2, Groups A, B, C, D T4 |
|                       | Class I, Zone 2, Group IIC            |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Articles in set

### Cable set - TC-C-MAX2-SC-31322122 - 2904674



Cable set for signal transmission on the Termination Carrier for two-channel modules or modules with double output from the MACX Analog Ex series. Connection of terminal points 3.1 and 3.2 as well as 2.1 and 2.2 (signal transmission) to the signal PCB.

### Cable set - TC-C-PTB3-SC-SET1 - 2905216



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

### DIN rail bus connectors - ME 17,5 TBUS 1,5/ 5-ST-3,81 GN - 2709561



DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

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## Articles in set

DIN rail bus connectors - ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - 2869728



DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

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## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141152 |
| eCl@ss 4.0    | 27210900 |
| eCl@ss 4.1    | 27210900 |
| eCl@ss 5.0    | 27210900 |
| eCl@ss 5.1    | 27210900 |
| eCl@ss 6.0    | 27210900 |
| eCl@ss 7.0    | 27141152 |
| eCl@ss 8.0    | 27141152 |
| eCl@ss 9.0    | 27141152 |

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002780 |
| ETIM 5.0 | EC002780 |
| ETIM 6.0 | EC002780 |
| ETIM 7.0 | EC002780 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211501 |
| UNSPSC 7.0901 | 39121019 |
| UNSPSC 11     | 39121006 |
| UNSPSC 12.01  | 39121006 |
| UNSPSC 13.2   | 39121432 |
| UNSPSC 18.0   | 39121432 |
| UNSPSC 19.0   | 39121432 |
| UNSPSC 20.0   | 39121432 |
| UNSPSC 21.0   | 39121432 |

## Approvals

### Approvals

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## Approvals

### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

### Ex Approvals

UL Listed / cUL Listed / cULus Listed

## Approval details

|                    |  |   |               |
|--------------------|--|---|---------------|
| UL Listed          |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330267 |
|                    |  |   |               |
| Nominal voltage UN |  | 50 V  |               |
| Nominal current IN |  | 1 A   |               |

|                    |  |   |               |
|--------------------|--|---|---------------|
| cUL Listed         |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 330267 |
|                    |  |   |               |
| Nominal voltage UN |  | 50 V  |               |
| Nominal current IN |  | 1 A   |               |

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

|              |  |
|--------------|--|
| cULus Listed |  |
|--------------|--|

## Accessories

### Necessary add-on products

Power and error message module - TC-MACX-MCR-PTB - 2904673



Power and fault signaling module with screw connection, only for use on the Termination Carrier, excluding corresponding DIN rail bus connector

## Module carrier - TC-2D37SUB-ADIO32-2EX-P-UNI - 2904684

### Accessories

Isolation amplifier - MACX MCR-EX-SL-2NAM-RO - 2865476



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via relay outputs (N/O contact) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

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Isolation amplifier - MACX MCR-EX-SL-2NAM-T - 2865489



Ex i NAMUR isolating amplifier, 2-channel. For operating proximity sensors and switches in Ex areas. The signals are transmitted via transistor outputs (passive) to the safe area. Line fault detection (LFD), 3-way isolation, SIL 2.

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Signal isolator - MACX MCR-EX-SL-RPSS-2I-2I - 2865382



Ex i measuring transducer repeater power supply, 2-channel; HART-transparent. Supplies Ex i 2-conductor measuring transducers and transmits the 4...20 mA signal from the Ex area to the safe area. 5-way electrical isolation, screw connection, up to SIL 3, PL.

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Cable - CABLE-D37SUB/B/B/ 100/KONFEK/S - 2305509



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 1 m

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Cable - CABLE-D37SUB/B/B/ 200/KONFEK/S - 2305512



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 2 m

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### Accessories

Cable - CABLE-D37SUB/B/B/ 300/KONFEK/S - 2305525



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 3 m

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Cable - CABLE-D37SUB/B/B/ 400/KONFEK/S - 2900759



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 4 m

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Cable - CABLE-D37SUB/B/B/ 600/KONFEK/S - 2900760



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 6 m

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Cable - CABLE-D37SUB/B/B/ 800/KONFEK/S - 2900761



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 8 m

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Cable - CABLE-D37SUB/B/B/1000/KONFEK/S - 2900762



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 10 m

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## Module carrier - TC-2D37SUB-ADIO32-2EX-P-UNI - 2904684

### Accessories

Cable - CABLE-D37SUB/B/B/1500/KONFEK/S - 2900763



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 15 m

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Cable - CABLE-D37SUB/B/B/2000/KONFEK/S - 2900764



Assembled shielded round cable; connection 1: D-SUB socket strip (1x 37-position); connection 2: D-SUB socket strip (1x 37-position); cable length: 20 m

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Cable - CABLE-D-37SUB/F/OE/0,25/S/0,5M - 2926221



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 0.5 m

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Cable - CABLE-D-37SUB/F/OE/0,25/S/1,0M - 2926234



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 1 m

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Cable - CABLE-D-37SUB/F/OE/0,25/S/1,5M - 2926247



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 1.5 m

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## Module carrier - TC-2D37SUB-ADIO32-2EX-P-UNI - 2904684

### Accessories

Cable - CABLE-D-37SUB/F/OE/0,25/S/2,0M - 2926250



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 2 m

Cable - CABLE-D-37SUB/F/OE/0,25/S/3,0M - 2926263



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 3 m

Cable - CABLE-D-37SUB/F/OE/0,25/S/4,0M - 2926276



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 4 m

Cable - CABLE-D-37SUB/F/OE/0,25/S/6,0M - 2926289



Assembled shielded round cable; connection 1: Single wires (37-position) (The wires are marked and fitted with ferrules. The braided shield is routed to a separate cable end.); connection 2: D-SUB socket strip (1x 37-position); cable length: 6 m

### Additional products

Label, highly flexible - EMLF (108XE)R - 0800549



Label, highly flexible, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK ROLL X1, THERMOMARK ROLL 2.0, THERMOMARK ROLL, mounting type: adhesive, lettering field size: 108 x 48000 mm, Number of individual labels: 1

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### Accessories

Zack Marker strip, flat - ZBF 15:UNBEDRUCKT - 0811202



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into flat marker groove, for terminal block width: 15 mm, lettering field size: 15 x 5.2 mm, Number of individual labels: 5

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