

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

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.



DIN rail bus connector, color: light gray, nominal current: 8 A (parallel contacts), rated voltage (III/2): 125 V, number of positions: 5, product range: TBUS5-18,8..., 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

Your advantages

- Space-saving installation under the housing in the DIN rail
- Contact design enables electronics modules to be easily snapped on
- Power supply and communication without additional wiring
- Parallel and serial contacts for efficient signal and data transmission

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2201813 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | ACHEDA |
| Product key | ACHEDA |
| GTIN | 4046356909365 |
| Weight per piece (including packing) | 4.6 g |
| Weight per piece (excluding packing) | 4.6 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Technical data

Notes

| | |
|----------------|---|
| Recommendation | Material of contact pads for bus connector, galvanic gold (hard gold) |
|----------------|---|

Product properties

| | |
|---------------------|------------------------|
| Product type | DIN rail bus connector |
| Product family | TBUS5-18,8.. |
| Number of positions | 5 |
| Pitch | 3.81 mm |

Electrical properties

Properties

| | |
|-----------------------------|-------------------------|
| Nominal current I_N | 8 A (parallel contacts) |
| Nominal voltage U_N | 125 V |
| Contact resistance | 4.4 m Ω |
| Rated surge voltage (III/3) | 2.5 kV |
| Rated voltage (III/2) | 125 V |
| Rated surge voltage (III/2) | 2.5 kV |
| Rated voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |

Material specifications

Material data - contact

| | |
|-------------------------|-------------|
| Contact material | Cu alloy |
| Surface characteristics | gold-plated |

Material data - housing

| | |
|--|-------------------|
| Color (Housing) | light gray (7035) |
| Insulating material | PA |
| Insulating material group | I |
| CTI according to IEC 60112 | 600 |
| Flammability rating according to UL 94 | V0 |

material specifications - connector

| | |
|----------|----|
| Color () | () |
|----------|----|

Dimensions

| | |
|------------|----------|
| Pitch | 3.81 mm |
| Width [w] | 25.5 mm |
| Height [h] | 36.5 mm |
| Length [l] | 20.45 mm |

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

Mechanical tests

Insertion and withdrawal forces

| | |
|-------------------------------------|-------------|
| Result | Test passed |
| No. of cycles | 25 |
| Insertion strength per pos. approx. | 6 N |
| Withdraw strength per pos. approx. | 5 N |

Contact holder in insert

| | |
|---|------------------------|
| Specification | IEC 60512-15-1:2008-05 |
| Contact holder in insert Requirements >20 N | Test passed |

Polarization and coding

| | |
|---------------|------------------------|
| Specification | IEC 60512-13-5:2006-02 |
| Result | Test passed |

Visual inspection

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-1:2002-02 |
| Result | Test passed |

Dimension check

| | |
|---------------|-----------------------|
| Specification | IEC 60512-1-2:2002-02 |
| Result | Test passed |

Environmental and real-life conditions

Vibration test

| | |
|------------------------|-----------------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.35 mm (10 Hz ... 60.1 Hz) |
| Acceleration | 5g (60.1 Hz ... 500 Hz) |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Durability test

| | |
|--|-----------------------|
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 2.95 kV |
| Contact resistance R ₁ | 4.4 mΩ |
| Contact resistance R ₂ | 4.5 mΩ |
| Insertion/withdrawal cycles | 25 |

Climatic test

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

| | |
|-----------------------------------|---|
| Specification | ISO 6988:1985-02 |
| Corrosive stress | 0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle |
| Thermal stress | 100 °C/168 h |
| Power-frequency withstand voltage | 1.39 kV |

Glow-wire test

| | |
|------------------|------------------------|
| Specification | IEC 60695-2-10:2013-04 |
| Temperature | 850 °C |
| Time of exposure | 30 s |

Shocks

| | |
|-----------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Semi-sinusoidal |
| Acceleration | 15g |
| Shock duration | 11 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 105 °C (dependent on the derating curve) |
| Ambient temperature (storage/transport) | -40 °C ... 55 °C |
| Relative humidity (storage/transport) | 30 % ... 70 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Electrical tests

Thermal test | Test group C

| | |
|----------------------------|-----------------------|
| Specification | IEC 60512-5-1:2002-02 |
| Tested number of positions | 5 |

Air clearances and creepage distances |

| | |
|--|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Rated surge voltage (III/3) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/3) | 1.5 mm |
| minimum creepage distance (III/3) | 1.9 mm |
| Rated insulation voltage (III/2) | 125 V |
| Rated surge voltage (III/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (III/2) | 1.5 mm |
| minimum creepage distance (III/2) | 0.75 mm |
| Rated insulation voltage (II/2) | 320 V |
| Rated surge voltage (II/2) | 2.5 kV |
| minimum clearance value - non-homogenous field (II/2) | 1.5 mm |
| minimum creepage distance (II/2) | 1.6 mm |

Packaging specifications

| | |
|-------------------|---------------------|
| Type of packaging | packed in cardboard |
|-------------------|---------------------|

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

| | |
|----------------------|--------|
| Outer packaging type | Carton |
|----------------------|--------|

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Drawings

Diagram



Type: TBUS5...

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector




2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/2201813>

|  cUL Recognized Approval ID: E118976-20151204 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 150 V | 6 A | - | - |

|  UL Recognized Approval ID: E118976-20151204 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 150 V | 8 A | - | - |

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

UNSPSC

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

ME 18,8 TBUS 1,5/5-ST-3,81KMGY - DIN rail bus connector



2201813

<https://www.phoenixcontact.com/gb/products/2201813>

Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk