

## DIN rail bus connectors - ME 22,5 TBUS 1,5/4P1S KMGY - 2201732

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DIN rail connector, nominal current: 8 A, rated voltage (III/2): 50 V, number of positions: 5, pitch: 3.81 mm, color: light gray, mounting: DIN rail, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 4 parallel contacts/1 serial contact

### Your advantages

- ✓ Space-saving DIN rail mounting
- ✓ 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



### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 50 pc                                                                                |
| GTIN         |  |
| GTIN         | 4046356905220                                                                        |

### Technical data

#### Item properties

|                           |                         |
|---------------------------|-------------------------|
| Brief article description | DIN rail bus connectors |
| Range of articles         | TBUS5..3,81             |
| Pitch                     | 3.81 mm                 |
| Number of positions       | 5                       |
| Mounting type             | DIN rail                |

#### Electrical parameters

|                             |                         |
|-----------------------------|-------------------------|
| Nominal current $I_N$       | 8 A (parallel contacts) |
|                             | 8 A (Serial contacts)   |
| Nom. voltage                | 50 V                    |
| Rated voltage (III/2)       | 50 V                    |
| Rated voltage (II/2)        | 50 V                    |
| Rated surge voltage (III/2) | 0.8 kV                  |

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## Technical data

### Electrical parameters

|                            |        |
|----------------------------|--------|
| Rated surge voltage (II/2) | 0.5 kV |
|----------------------------|--------|

### Material data - contact

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

### Material data - housing

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

### Dimensions for the product

|              |          |
|--------------|----------|
| Length [ l ] | 20.45 mm |
| Width [ w ]  | 29.2 mm  |
| Height [ h ] | 36.5 mm  |
| Pitch        | 3.81 mm  |

### PCB specifications

|               |                   |
|---------------|-------------------|
| PCB thickness | 1.4 mm ... 1.8 mm |
|---------------|-------------------|

### Packaging information

|                            |      |
|----------------------------|------|
| Pieces per package         | 50   |
| Denomination packing units | Pcs. |

### General product information

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

### Ambient conditions

|                                         |                                                     |
|-----------------------------------------|-----------------------------------------------------|
| Ambient temperature (storage/transport) | -40 °C ... 55 °C                                    |
| Ambient temperature (assembly)          | -5 °C ... 100 °C                                    |
| Ambient temperature (operation)         | -40 °C ... 105 °C (dependent on the derating curve) |
| Relative humidity (storage/transport)   | 80 %                                                |

### Mechanical tests according to standard

|                                     |                        |
|-------------------------------------|------------------------|
| Test specification                  | IEC 61984:2008-10      |
| Visual inspection                   | IEC 60512-1-1:2002-02  |
| Dimension check                     | IEC 60512-1-2:2002-02  |
| Insertion and withdrawal force      | IEC 60512-13-2:2006-02 |
| No. of cycles                       | 25                     |
| Insertion strength per pos. approx. | 6 N                    |
| Withdraw strength per pos. approx.  | 5 N                    |
| Polarization and coding             | IEC 60512-13-5:2006-02 |

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### Technical data

#### Mechanical tests according to standard

|                          |                        |
|--------------------------|------------------------|
| Contact holder in insert | IEC 60512-15-1:2008-05 |
| Test force per pos.      | 20 N                   |

#### Current carrying capacity / derating curves

|                  |                   |
|------------------|-------------------|
| Specification    | IEC 61984:2008-10 |
| Reduction factor | 0.8               |

#### Mechanical tests (A)

|                                              |                   |
|----------------------------------------------|-------------------|
| Test specification                           | IEC 61984:2008-10 |
| Insertion strength per pos. approx.          | 6 N               |
| Withdraw strength per pos. approx.           | 5 N               |
| Polarization when inserted requirement >20 N | Test passed       |
| Contact holder in insert requirements >20 N  | Test passed       |

#### Durability tests (B)

|                                        |                       |
|----------------------------------------|-----------------------|
| Specification                          | IEC 60512-9-1:2010-03 |
| Contact resistance R <sub>1</sub>      | 4.4 mΩ                |
| Insertion/withdrawal cycles            | 25                    |
| Contact resistance R <sub>2</sub>      | 4.5 mΩ                |
| Impulse withstand voltage at sea level | 2.95 kV               |
| Power-frequency withstand voltage      | 1.39 kV               |

#### Thermal tests (C)

|                         |                       |
|-------------------------|-----------------------|
| Specification           | IEC 60512-5-1:2002-02 |
| Number of positions     | 5                     |
| Conductor cross section | 1.5 mm <sup>2</sup>   |

#### Climatic tests (D)

|                                        |                                                                           |
|----------------------------------------|---------------------------------------------------------------------------|
| Specification                          | ISO 6988:1985-02                                                          |
| Cold stress                            | -40 °C/2 h                                                                |
| Thermal stress                         | 100 °C/168 h                                                              |
| Corrosive stress                       | 0.2 dm <sup>3</sup> SO <sub>2</sub> on 300 dm <sup>3</sup> /40 °C/1 cycle |
| Impulse withstand voltage at sea level | 2.95 kV                                                                   |
| Power-frequency withstand voltage      | 1.39 kV                                                                   |

#### Environmental and durability tests (E)

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Specification                         | IEC 61984:2008-10                   |
| Result, degree of protection, IP code | Finger safety with IP20 test finger |

#### Vibration test

|               |                        |
|---------------|------------------------|
| Specification | IEC 60068-2-6:2007-12  |
| Frequency     | 10 - 150 - 10 Hz       |
| Sweep speed   | 1 octave/min           |
| Amplitude     | 0.35 mm (10 - 60.1 Hz) |

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### Technical data

#### Vibration test

|                        |                                   |
|------------------------|-----------------------------------|
| Acceleration           | 5g (60.1 - 500 Hz)                |
| Test duration per axis | 2.5 h                             |
| Test directions        | X-, Y- and Z-axis (pos. and neg.) |

#### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440402 |
| eCl@ss 4.0    | 27180400 |
| eCl@ss 4.1    | 27180400 |
| eCl@ss 5.0    | 27180500 |
| eCl@ss 5.1    | 27180500 |
| eCl@ss 6.0    | 27180800 |
| eCl@ss 7.0    | 27182702 |
| eCl@ss 8.0    | 27440402 |
| eCl@ss 9.0    | 27440402 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001031 |
| ETIM 3.0 | EC001031 |
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002637 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |
| UNSPSC 18.0   | 39121409 |
| UNSPSC 19.0   | 39121409 |
| UNSPSC 20.0   | 39121409 |
| UNSPSC 21.0   | 39121409 |

### Approvals

#### Approvals

## DIN rail bus connectors - ME 22,5 TBUS 1,5/4P1S KMGY - 2201732

### Approvals

#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                   |                                                                                                                                                                        |
|--------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UL Recognized      |  | <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> E118976-20151204 |
|                    |                                                                                   |                                                                                                                                                                        |
| Nominal voltage UN | 150 V                                                                             |                                                                                                                                                                        |
| Nominal current IN | 8 A                                                                               |                                                                                                                                                                        |

|                    |                                                                                     |                                                                                                                                                                        |
|--------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cUL Recognized     |  | <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> E118976-20151204 |
|                    |                                                                                     |                                                                                                                                                                        |
| Nominal voltage UN | 150 V                                                                               |                                                                                                                                                                        |
| Nominal current IN | 6 A                                                                                 |                                                                                                                                                                        |

|     |                                                                                     |         |
|-----|-------------------------------------------------------------------------------------|---------|
| EAC |  | B.01687 |
|-----|-------------------------------------------------------------------------------------|---------|

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-------------------------------------------------------------------------------------|

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