

## DIN rail bus connectors - TBUS8-20,0-PPPPPPP-7035 - 2202889

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DIN rail connector, nominal current: 6 A, rated voltage (III/2): 32 V, number of positions: 8, pitch: 2.54 mm, color: light gray, mounting: DIN rail, Item with gold-plated contacts, bus connectors for connecting with electronics housings, 8 parallel contacts

### 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           | 10 pc   |
| Minimum order quantity | 10 pc   |
| GTIN                   | <br>4 055626 382135 |
| GTIN                   | 4055626382135   |

### Technical data

#### Item properties

|                           |                         |
|---------------------------|-------------------------|
| Brief article description | DIN rail bus connectors |
| Range of articles         | TBUS8..2,54             |
| Pitch                     | 2.54 mm                 |
| Number of positions       | 8                       |
| Mounting type             | DIN rail                |

#### Electrical parameters

|                             |                         |
|-----------------------------|-------------------------|
| Nominal current $I_N$       | 6 A (parallel contacts) |
| Nom. voltage                | 32 V                    |
| Rated voltage (III/2)       | 32 V                    |
| Rated voltage (II/2)        | 32 V                    |
| Rated surge voltage (III/2) | 1.5 kV                  |

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## Technical data

### Electrical parameters

|                            |        |
|----------------------------|--------|
| Rated surge voltage (II/2) | 1.5 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 ] | 16.3 mm  |
| Width [ w ]  | 24.3 mm  |
| Height [ h ] | 37.15 mm |
| Pitch        | 2.54 mm  |

### PCB specifications

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

### Packaging information

|                            |                     |
|----------------------------|---------------------|
| Type of packaging          | packed in cardboard |
| Pieces per package         | 10                  |
| Denomination packing units | Pcs.                |
| Outer packaging type       | Carton              |

### 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 %  |

### Current carrying capacity / derating curves

|                  |   |
|------------------|---|
| Caption          | Type: TBUS8-18,8-...                          |
| Specification    | IEC 61984:2008-10                             |
| Reduction factor | 0.9   |
| Note             | Representation based on IEC 60512-5-2:2002-02 |

### Mechanical strength/tumbling barrel

|                |       |
|----------------|-------|
| Height of fall | 50 cm |
|----------------|-------|

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## Technical data

### Vibration test

|                 |                                   |
|-----------------|-----------------------------------|
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
|-----------------|-----------------------------------|

Test for substances that would hinder coating with paint or varnish

|               |                      |
|---------------|----------------------|
| Specification | VW PV 3.10.7:2005-02 |
|---------------|----------------------|

### 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    | 27260700 |
| eCl@ss 4.1    | 27260700 |
| eCl@ss 5.0    | 27260700 |
| eCl@ss 5.1    | 27260700 |
| eCl@ss 6.0    | 27260700 |
| eCl@ss 7.0    | 27440309 |
| eCl@ss 8.0    | 27440402 |
| eCl@ss 9.0    | 27440402 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC002637 |
| ETIM 6.0 | EC002638 |
| ETIM 7.0 | EC002638 |

## Approvals

### Approvals

#### Approvals


UL Recognized / cUL Recognized / EAC / IECCE CB Scheme / VDE Zeichengenehmigung / cULus Recognized


#### Ex Approvals

### Approval details


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## Approvals

|                    |   |  |
|--------------------|---|--|
| 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 | 29.9 V  |  |
| Nominal current IN | 6 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 | 29.9 V  |  |
| Nominal current IN | 4 A   |  |

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

|                    |   |   |           |
|--------------------|---|---|-----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-62506 |
|                    |   |   |           |
| Nominal voltage UN | 32 V  |   |           |
| Nominal current IN | 6 A   |   |           |

|                        |   |   |          |
|------------------------|---|---|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40050612 |
|                        |   |   |          |
| Nominal voltage UN     | 32 V  |   |          |
| Nominal current IN     | 6 A   |   |          |

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

## Accessories

### Additional products

## DIN rail bus connectors - TBUS8-20,0-PPPPPPPP-7035 - 2202889

### Accessories

Printed-circuit board connector - FMC 0,5/ 8-ST-2,54 - 1821151

PCB connector, nominal current: 6 A, rated voltage (III/2): 160 V, nominal cross section: 0.5 mm<sup>2</sup>, number of positions: 8, pitch: 2.54 mm, connection method: Push-in spring connection, color: black, contact surface: Gold



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