

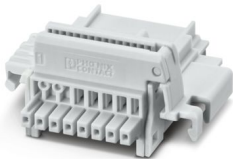
# TBUS8-25,0-PPPPPPPP-7035 - DIN rail bus connector



2202891

<https://www.phoenixcontact.com/us/products/2202891>

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DIN rail bus connector, color: light gray, nominal current: 6 A (parallel contacts), rated voltage (III/2): 32 V, number of positions: 8, product range: TBUS8-25..., pitch: 2.54 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, 8 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                          | 2202891       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | AC09          |
| Product key                          | ACHAGA        |
| GTIN                                 | 4055626382142 |
| Weight per piece (including packing) | 6.82 g        |
| Weight per piece (excluding packing) | 5.5 g         |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

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## 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      | TBUS8-25..             |
| Number of positions | 8                      |
| Pitch               | 2.54 mm                |

### Electrical properties

#### Properties

|                             |                         |
|-----------------------------|-------------------------|
| Nominal current $I_N$       | 6 A (parallel contacts) |
| Nominal voltage $U_N$       | 32 V                    |
| Rated voltage (III/3)       | 32 V                    |
| Rated surge voltage (III/3) | 1.5 kV                  |
| Rated voltage (III/2)       | 32 V                    |
| Rated surge voltage (III/2) | 1.5 kV                  |
| Rated voltage (II/2)        | 32 V                    |
| Rated surge voltage (II/2)  | 1.5 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      | 2.54 mm  |
| Width [w]  | 29.3 mm  |
| Height [h] | 37.15 mm |
| Length [l] | 16.3 mm  |

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## Mounting

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

## Environmental and real-life conditions

### 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

### Air clearances and creepage distances |

|                                                        |                     |
|--------------------------------------------------------|---------------------|
| Specification                                          | IEC 60664-1:2007-04 |
| Insulating material group                              | I                   |
| Comparative tracking index (IEC 60112)                 | CTI 600             |
| Rated insulation voltage (III/3)                       | 32 V                |
| Rated surge voltage (III/3)                            | 1.5 kV              |
| minimum clearance value - non-homogenous field (III/3) | 0.8 mm              |
| minimum creepage distance (III/3)                      | 1.3 mm              |
| Rated insulation voltage (III/2)                       | 32 V                |
| Rated surge voltage (III/2)                            | 1.5 kV              |
| minimum clearance value - non-homogenous field (III/2) | 0.5 mm              |
| minimum creepage distance (III/2)                      | 0.53 mm             |
| Rated insulation voltage (II/2)                        | 32 V                |
| Rated surge voltage (II/2)                             | 1.5 kV              |
| minimum clearance value - non-homogenous field (II/2)  | 0.5 mm              |
| minimum creepage distance (II/2)                       | 0.53 mm             |

## Packaging specifications

|                      |                     |
|----------------------|---------------------|
| Type of packaging    | packed in cardboard |
| Outer packaging type | Carton              |

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## Approvals

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| cUL Recognized<br>Approval ID: E118976-20151204 |                       |                       |                   |                             |
|-------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                           | 29.9 V                | 4 A                   | -                 | -                           |
| Signal                                          | 29.9 V                | 4 A                   | -                 | -                           |

| UL Recognized<br>Approval ID: E118976-20151204 |                       |                       |                   |                             |
|------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                          | 29.9 V                | 6 A                   | -                 | -                           |
| Signal                                         | 29.9 V                | 4 A                   | -                 | -                           |

| VDE approval of drawings<br>Approval ID: 40050612 |                       |                       |                   |                             |
|---------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Power                                             | 32 V                  | 6 A                   | -                 | -                           |
| Signal                                            | 32 V                  | 4 A                   | -                 | -                           |

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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%               |

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