

## DIN rail bus connectors - TBUS8-20,0-PPPPSS-7035 - 2202892

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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, 6 parallel contacts/2 serial 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	 4 055626 382173
GTIN	4055626382173

### 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 <sub>N</sub>	6 A (parallel contacts) 4 A (Serial contacts)
Nom. voltage	32 V
Rated voltage (III/2)	32 V
Rated voltage (II/2)	32 V

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## Technical data

### Electrical parameters

Rated surge voltage (III/2)	1.5 kV
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
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### 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 %

### 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

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### Technical data

#### Mechanical tests according to standard

Insertion strength per pos. approx.	2.8 N
Withdraw strength per pos. approx.	2.5 N
Contact holder in insert	IEC 60512-15-1:2008-05
Test force per pos.	20 N

#### Current carrying capacity / derating curves

Caption	Type: TBUS8-... with FMC 0,5/...-ST-2,54
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#### Mechanical tests (A)

Test specification	IEC 61984:2008-10
Insertion strength per pos. approx.	2.8 N
Withdraw strength per pos. approx.	2.5 N
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>	5.97 mΩ
Insertion/withdrawal cycles	25
Contact resistance R <sub>2</sub>	5.91 mΩ
Impulse withstand voltage at sea level	1.75 kV
Power-frequency withstand voltage	0.84 kV

#### Thermal tests (C)

Specification	IEC 60512-5-1:2002-02
Number of positions	8
Conductor cross section	0.5 mm <sup>2</sup>

#### Climatic tests (D)

Specification	DIN 50018:2013-05
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	1.75 kV
Power-frequency withstand voltage	0.84 kV

#### Environmental and durability tests (E)

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

#### Mechanical strength/tumbling barrel

Specification	IEC 60998-1:2002-12
Rotation speed	5 rpm
Number of drop cycles	50

#### Vibration test

## DIN rail bus connectors - TBUS8-20,0-PPPPSS-7035 - 2202892

### Technical data

#### 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)
Acceleration	5g (60.1 - 500 Hz)
Test duration per axis	2.5 h

#### Shocks

Specification	IEC 60068-2-27:2008-02
Pulse shape	Semi-sinusoidal
Acceleration	15g
Shock duration	11 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

#### Test for assessing the risk of fire (glow wire)

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

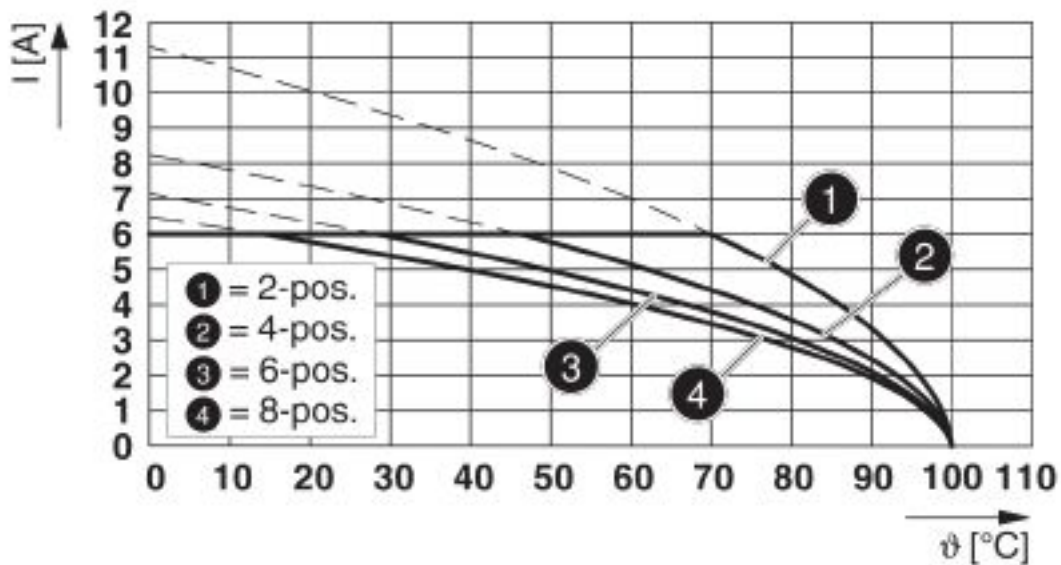
#### Environmental Product Compliance

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

### Drawings

# DIN rail bus connectors - TBUS8-20,0-PPPPSS-7035 - 2202892

Diagram



Type: TBUS8-... with FMC 0,5/...-ST-2,54

## 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


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## Approvals


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		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
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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	
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