

HBUS 161,6-16P-1S BK - DIN rail bus connector



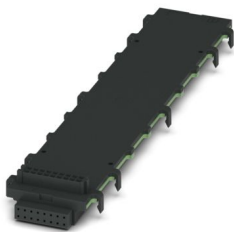
2278555

<https://www.phoenixcontact.com/us/products/2278555>

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RAIL



DIN rail bus connector, color: black, nominal current: 3 A (Total current of 25 A max.), rated voltage (III/2): 30 V, number of positions: 16, product range: BC 161,6..., pitch: 2.54 mm, mounting: DIN rail mounting, locking: without

Your advantages

- Space-saving installation under the housing in the DIN rail
- Fast module-to-module communication without additional wiring effort
- One DIN rail connector for each overall width

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2278555 |
| Packing unit | 10 pc |
| Minimum order quantity | 10 pc |
| Sales key | AC10 |
| Product key | ACHBBA |
| GTIN | 4046356299442 |
| Weight per piece (including packing) | 42.32 g |
| Weight per piece (excluding packing) | 39.8 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|---------------------|------------------------|
| Product type | DIN rail bus connector |
| Product family | BC 161,6.. |
| Number of positions | 16 |
| Pitch | 2.54 mm |

Electrical properties

Properties

| | |
|-----------------------------|----------------------------------|
| Nominal current I_N | 3 A (Total current of 25 A max.) |
| Contact resistance | 23.9 mΩ |
| Rated voltage (III/3) | 30 V |
| Rated surge voltage (III/3) | 0.8 kV |
| Rated voltage (III/2) | 30 V |
| Rated surge voltage (III/2) | 0.8 kV |
| Rated voltage (II/2) | 100 V |
| Rated surge voltage (II/2) | 0.8 kV |

Connection data

| | |
|----------------------|----------------------------------|
| Maximum load current | 3 A (maximum total current 23 A) |
|----------------------|----------------------------------|

Material specifications

Material data - contact

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

Material data - housing

| | |
|--|--------------|
| Color (Housing) | black (9005) |
| 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] | 161.6 mm |
| Height [h] | 13.6 mm |
| Length [l] | 37.1 mm |

Mounting

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

Mechanical tests

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

Durability test

| | |
|--|-----------------------|
| Specification | IEC 60512-9-1:2010-03 |
| Impulse withstand voltage at sea level | 0.91 kV |
| Contact resistance R_1 | 23.9 m Ω |
| Contact resistance R_2 | 24 m Ω |
| Insertion/withdrawal cycles | 25 |

Climatic test

| | |
|-----------------------------------|---|
| Specification | DIN 50018:2013-05 |
| 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 | 0.55 kV |

Vibration test

| | |
|------------------------|-----------------------------------|
| Specification | IEC 60068-2-6:2007-12 |
| Frequency | 10 - 150 - 10 Hz |
| Sweep speed | 1 octave/min |
| Amplitude | 0.15 mm (10 Hz ... 58.1 Hz) |
| Acceleration | 20 m/s ² |
| Test duration per axis | 2.5 h |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Shocks

| | |
|-----------------|-----------------------------------|
| Specification | IEC 60068-2-27:2008-02 |
| Pulse shape | Semi-sinusoidal |
| Acceleration | 150 m/s ² |
| Shock duration | 11 ms |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |

Glow-wire test

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

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Ambient conditions

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

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) | 80 % |
| Ambient temperature (assembly) | -5 °C ... 100 °C |

Electrical tests

Air clearances and creepage distances |

| | |
|--|---------------------|
| Specification | IEC 60664-1:2007-04 |
| Insulating material group | I |
| Rated insulation voltage (III/3) | 30 V |
| Rated surge voltage (III/3) | 0.8 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) | 30 V |
| Rated surge voltage (III/2) | 0.8 kV |
| minimum clearance value - non-homogenous field (III/2) | 0.2 mm |
| minimum creepage distance (III/2) | 0.53 mm |
| Rated insulation voltage (II/2) | 100 V |
| Rated surge voltage (II/2) | 0.8 kV |
| minimum clearance value - non-homogenous field (II/2) | 0.2 mm |
| minimum creepage distance (II/2) | 0.71 mm |

Packaging specifications

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

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Approvals

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|  cULus Recognized Approval ID: E118976-20090923 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 30 V | 2 A | - | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27460202 |
| ECLASS-15.0 | 27460202 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC002638 |
|-----------|----------|

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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