

FB2-S1-12SP-T-0-16-00-0-0 - Junction box



2316417

<https://www.phoenixcontact.com/us/products/2316417>

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Stainless steel field junction box with 16 ports for use in hazardous locations. Includes 12-spur block device coupler (FB-12SP) for Foundation Fieldbus or PROFIBUS PA, three terminal blocks for trunk cable connection (+, -, S).

Product description

FF/PA - 12-spur block junction box

Your advantages

- Single-sided plug configuration eliminates cable bend radius issues
- Provides current limiting short-circuit protection per spur
- Connect up to 12 Foundation Fieldbus or PROFIBUS PA field devices
- Terminator preinstalled

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2316417 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN11 |
| Product key | DNC1Z1 |
| GTIN | 4055626301754 |
| Weight per piece (including packing) | 8,140 g |
| Weight per piece (excluding packing) | 6,540 g |
| Customs tariff number | 85371098 |
| Country of origin | US |

Technical data

Notes

Utilization restriction

| | |
|------------|---|
| CCCex note | Use in potentially explosive areas is not permitted in China. |
|------------|---|

Product properties

| | |
|--------------|-------------|
| Product type | Control box |
|--------------|-------------|

Electrical properties

Supply

| | |
|--------------------------|------------------|
| Max. current consumption | 6.5 mA (No-load) |
| | 680 mA (trunk) |

Ex data

Safety data

| | |
|---|------------------------|
| Input voltage U_i | 32 V (IIB (C/D)) |
| | 24 V (IIC (A/B)) |
| | 17.5 V (FISCO) |
| Inductance L_i | 4 μ H |
| Capacitance C_i | 0 μ F |
| Max. output voltage U_o | U_{in} (Branch line) |
| Max. output current I_o | 56 mA (per spur) |
| Max. output power P_o | 1.792 W |
| Safety-related maximum voltage U_m | 17.5 V |
| IIC/IIB (per spur): Max. external inductivity L_o / Max. external capacitance C_o | / 80 nF |
| | 0.26 mH |

Interfaces

| | |
|--------|---------------------|
| Signal | FOUNDATION Fieldbus |
| | PROFIBUS |

Data

| | |
|---------------------------------------|--|
| No. of channels | 12 |
| Termination resistor | Integrated termination, activated with bridge located in correct terminals |
| Conductor cross-section flexible max. | 2.5 mm ² |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section, rigid max. | 2.5 mm ² |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section AWG max. | 12 |
| Conductor cross-section AWG min. | 24 |

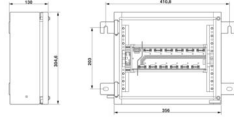
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Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 355.6 mm |
| Height | 304.8 mm |
| Depth | 127 mm |

Material specifications

| | |
|------------------|----------------------------|
| Color (Housing) | white aluminium (RAL 9006) |
| Housing material | Stainless steel |

Mechanical tests

| | |
|---|---|
| Corrosive resistance in accordance with ANSI-ISA 71.04-1985 - Severity level G3 | : |
|---|---|

Environmental and real-life conditions

Ambient conditions

| | |
|--|-------------------------|
| Degree of protection | IP66 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Altitude | 2000 m |
| Max. permissible relative humidity (operation) | < 95 % (non-condensing) |

Approvals

Conformity/Approvals

| | |
|-------------|---------------------------------------|
| Conformance | CE-compliant, additionally EN 61326-1 |
|-------------|---------------------------------------|

Ex data

| | |
|------------------|---|
| ATEX | DEMKO 16ATEX1704X II 3 G D Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc Ex ic IIC T4 Gc, FISCO ic spurs Ex tc IIIC T135 Dc IP66 |
| IECEX | IECEX UL 16.0079X Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc Ex ic IIC T4 Gc, FISCO ic spurs Ex tc IIIC T135 Dc IP66 |
| UL, USA / Canada | Class I, Zone 2, AEx nA [ic] IIC T4 Gc, AEx nA nC[ic] IIC T4 Gc Entity/FISCO spurs Class I, Div. 2, Groups A, B, C, D, T4 Class I, Zone 22, AEx tc IIIC T135 Dc IP66 |

Standards and regulations

Standards

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| | |
|-----------------------|-------------|
| Standards/regulations | EN 61326-1 |
| | EN 60079-0 |
| | EN 60079-11 |
| | EN 60079-15 |

Mounting

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|---------------|----------------|
| Mounting type | Panel mounting |
|---------------|----------------|

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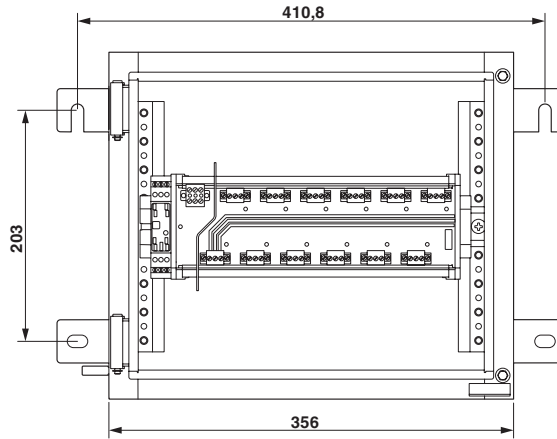
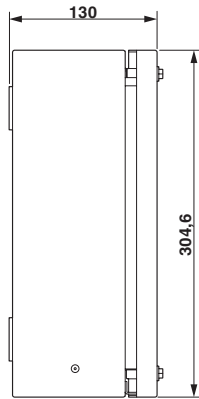


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Drawings

Dimensional drawing



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27180101 |
| ECLASS-15.0 | 27180101 |

ETIM

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|-----------|----------|
| ETIM 10.0 | EC000261 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31261500 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 7(a), 7(c)-I |

China RoHS

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|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
| SCIP | fb626b23-d6c7-4048-85ac-e27bf290cd8a |

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