

# 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.
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### Product properties

Product type	Control box
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### 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 $\mu$ H
Capacitance $C_i$	0 $\mu$ 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 <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section, rigid min.	0.2 mm <sup>2</sup>
Conductor cross-section AWG max.	12
Conductor cross-section AWG min.	24

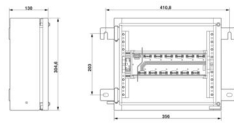
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## Dimensions

Dimensional drawing	
Width	355.6 mm
Height	304.8 mm
Depth	127 mm

## Material specifications

Color	gray
Housing material	Stainless steel

## Mechanical tests

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

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



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

## Mounting

Mounting type	Panel mounting
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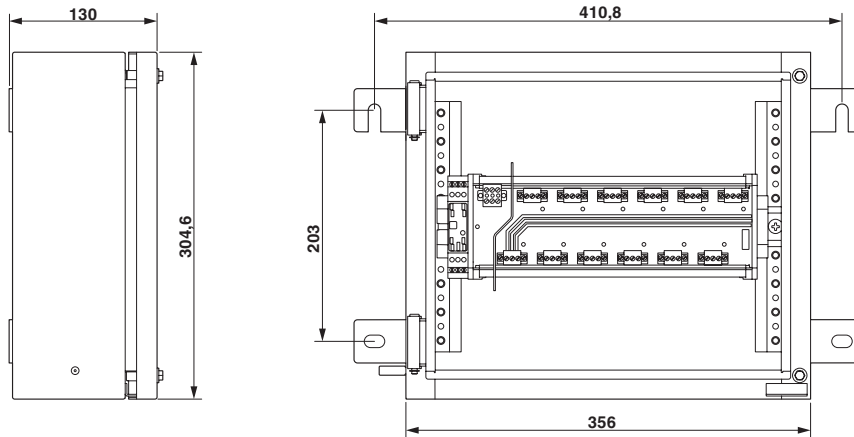


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## Drawings

Dimensional drawing



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## Classifications

### ECLASS

ECLASS-13.0	27180101
ECLASS-15.0	27180101

### ETIM

ETIM 10.0	EC000261
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### 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

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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