

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



2316433

<https://www.phoenixcontact.com/us/products/2316433>

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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, trunk cable (+, -, S) is connected to a Plugtrab surge base (PT 4+F-BE).



## 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
- Terminator preinstalled
- Connect up to 12 Foundation Fieldbus or PROFIBUS PA field devices

## Commercial data

Item number	2316433
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC1Z1
Catalog page	Page 453 (C-6-2019)
GTIN	4055626301761
Weight per piece (including packing)	6,895 g
Weight per piece (excluding packing)	6,600 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 $U_o$	$U_{in}$ (spur)
Max. output current $I_o$	56 mA (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

### Dimensions

Width	355.6 mm
Height	304.8 mm
Depth	127 mm

### Material specifications

Color	gray
Housing material	Stainless steel, 316L, electropolished

### Environmental and real-life conditions

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## Ambient conditions

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

## Approvals

### ATEX

Identification	⊕ II 3G Ex nA [ic] IIC T4 Gc
	Ex nA nC [ic] IIC T4 Gc
	Ex ic IIC T4 Gc, FISCO ic spurs
	⊕ II 3 D Ex tc IIIC T135 Dc IP66
Certificate	DEMKO 16ATEX1704X

### IECEX

Identification	Ex nA [ic] IIC T4 Gc
	Ex nA nC [ic] IIC T4 Gc
	Ex ic IIC T4 Gc, FISCO ic spurs
	⊕ II 3 D Ex tc IIIC T135 Dc IP66
Certificate	IECEX UL 16.0079X

### UL, USA

Identification	Class I, Zone 2, AEx nA [ic] IIC T4
	Ex nA [ic] IIC T4 Gc X Entity/FISCO spurs
	Class I, Div. 2, Groups A, B, C, D T4
	Zone 22, AEx tc IIIB T135°C
	Ex tc IIIB T135°C Dc X IP66

### UKCA Ex (UKEX)

Identification	⊕ II 3G Ex nA [ic] IIC T4 Gc
	Ex nA [ic] IIC T4 Gc
	Ex nA nC [ic] IIC T4 Gc
	Ex ic IIC T4 Gc, FISCO ic spurs
	⊕ II 3 D Ex tc IIIC T135 Dc IP66
Certificate	PxCAI22UKEx2316417X

## Standards and regulations

### Standards

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

## Mounting

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Mounting type	Wall mounting
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## Classifications

### ECLASS

ECLASS-11.0	27180101
ECLASS-12.0	27180101
ECLASS-13.0	27180101

### ETIM

ETIM 9.0	EC000261
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### UNSPSC

UNSPSC 21.0	31261500
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## Environmental product compliance

REACH SVHC

Lead 7439-92-1

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