

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

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



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 301754
GTIN	4055626301754

## Technical data

### Dimensions

Width	355.6 mm
Height	304.8 mm
Depth	127 mm

### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	2000 m
Degree of protection	IP66

### General

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## Technical data

### General

Net weight	6540 g
Housing material	Stainless steel
Color	gray
Conformance	CE-compliant, additionally EN 61326-1

### Power supply

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

### Interfaces

Inductance $L_i$	4 $\mu$ H
Max. output voltage $U_o$	$U_{in}$ (spur)

### Safety data

Input voltage $U_i$	32 V (IIB (C/D))
Max. output voltage $U_o$	$U_{in}$ (spur)
Max. output current $I_o$	56 mA (per spur)
Max. output power $P_o$	1.792 W
Group	IIC/IIB
Max. external capacitance $C_o$	80 nF
Additional text	per spur
Group	IIC/IIB
Max. external inductivity $L_o$	0.26 mH
Additional text	per spur
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
Safety-related maximum voltage $U_m$	17.5 V

### Standards and Regulations

Type of test	Corrosive resistance in acc. to ANSI-ISA 71.04-1985 - Severity level G3
Standards/regulations	EN 61326-1
	EN 60079-0
	EN 60079-11
	EN 60079-15
Conformance	CE-compliant, additionally EN 61326-1
Group	IIC/IIB
	IIC/IIB
ATEX	DEMKO 16ATEX1704X II 3 G D Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc

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## Technical data

### Standards and Regulations

	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

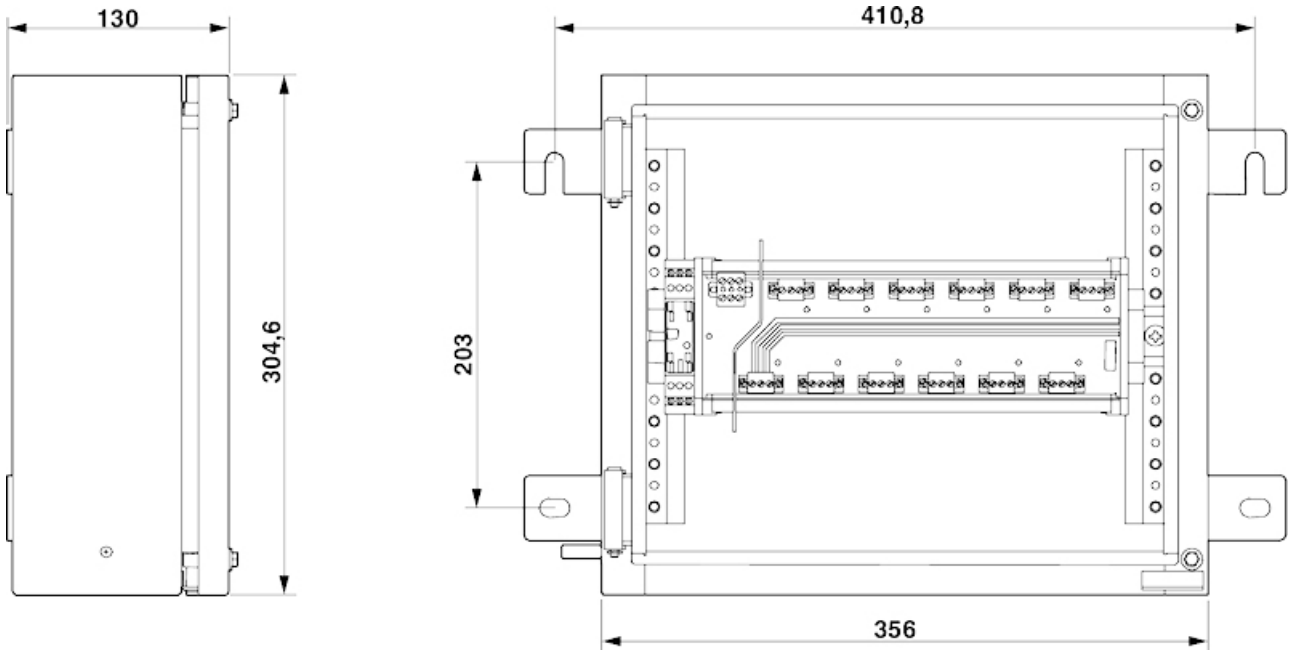
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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## Drawings

## Junction box - FB2-S1-12SP-T-0-16-00-0-0 - 2316417

Dimensional drawing



### Classifications

eCl@ss

eCl@ss 10.0.1	27180101
eCl@ss 4.0	27250203
eCl@ss 4.1	27250203
eCl@ss 5.0	27250203
eCl@ss 5.1	27259205
eCl@ss 6.0	27180100
eCl@ss 7.0	27180101
eCl@ss 8.0	27180101
eCl@ss 9.0	27180101

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## Classifications

### ETIM

ETIM 3.0	EC001600
ETIM 4.0	EC000261
ETIM 5.0	EC000261
ETIM 6.0	EC000261
ETIM 7.0	EC000261

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	43201553

## Accessories

### Accessories

#### Cable screw gland

Cable gland - FB-M-KV-M20-EX - 2900197



Cable gland, M20, for FB... enclosure

Cable gland - FB-M-BS-M20-EX - 2900209



Plug, M20, for FB... enclosure

Cable gland - FB-M-BD-M20-EX - 2901859



Breather, M20, for FB... enclosure

#### Device coupler

## Junction box - FB2-S1-12SP-T-0-16-00-0-0 - 2316417

### Accessories

Power supply unit - FB-PS-MB-25DSUB/EX - 2316146



Four-channel, redundant fieldbus power supply base. Host connection is a D-SUB 25 socket connector.

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Power supply unit - FB-PS-MB-Y/EX - 2316148



Four-channel redundant fieldbus power supply base. Host connections are for two Yokogawa AKB336 20-pin cables.

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Power supply unit - FB-PS-MB-I/EX - 2316149



Four-channel, redundant fieldbus power supply base. Host connection is for an Invensys® D-SUB 25 cable.

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Power distributor - FB-PS-BASE/EX - 2316145



Base for fieldbus power supply plugs. Provides redundancy when 2 plugs are installed. Redundancy is maintained across multiple bases via internal power buses. Additional internal bus provides remote indication.

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### Flat nut

Counter nut - A-INL-M20-N-S - 1411242



Counter nut, material: Brass, nickel-plated, for threads M20 x 1.5, color: silver

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### Full screw connection

## Junction box - FB2-S1-12SP-T-0-16-00-0-0 - 2316417

### Accessories

Cable gland - G-ESS-M20-S66L-NTES-S - 1411075



Cable gland, cable gland material: Nickel-plated brass, application: Ex, external cable diameter 6.5 mm ... 14 mm, shielding: no, connecting thread: M20 x 1.5, color: silver

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Cable gland - G-ESS-M20-S66L-STES-S - 1411076



Cable gland, cable gland material: Stainless steel 316L, application: Ex, external cable diameter 6.5 mm ... 14 mm, shielding: no, connecting thread: M20 x 1.5, color: silver

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### Plug for cable screw gland

Screw plug - A-EXSH-M20-68L-N-S - 1411104



Screw plug, cable gland material: Nickel-plated brass, application: Ex, connecting thread: M20 x 1.5, color: silver

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Screw plug - A-EXSH-M20-68L-S-S - 1411105



Screw plug, cable gland material: Stainless steel 316L, application: Ex, connecting thread: M20 x 1.5, color: silver

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### Power supply

Power module - FB-PS-PLUG-24DC/28DC/0.5/EX - 2316132



Power supply plug for fieldbus system in hazardous locations. Provides 500 mA @ 28 V DC to couplers along the trunk.

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### Pressure compensation element

## Junction box - FB2-S1-12SP-T-0-16-00-0-0 - 2316417

### Accessories

Pressure compensation element - A-EXB-20-66L-N-S - 1411117



Pressure compensation element, material: Brass, nickel-plated, application: Ex, connecting thread: M20 x 1.5, color: silver

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### Seal

Flat gasket - A-SEW-20-P-W - 1411283



Flat gasket, material: Nylon, for threads M20, color: white

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