

## Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Stainless steel field junction box with ten ports for use in hazardous locations. Includes six-spur block device coupler (FB-6SP) for Foundation Fieldbus or PROFIBUS PA, three terminal blocks for trunk cable connection (+, -, S).

### Product Description


FF/PA - Six-spur block junction box

### Your advantages

- ✓ Connect up to six 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 590585
GTIN	4055626590585
Weight per Piece (excluding packing)	1.000 g
Custom tariff number	85371098
Country of origin	United States

### Technical data

#### Dimensions

Width	254 mm
Height	254 mm
Depth	127 mm

# Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

## Technical data

### Ambient conditions

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

### General

Net weight	4640 g
Housing material	Stainless steel
Color	gray
Conformance	CE-compliant, additionally EN 61326-1

### Power supply

Max. current consumption	4.8 mA (No-load)
	340 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 (spur)
Max. output power $P_o$	1.792 W
Group	IIC/IIB
Max. external capacitance $C_o$	80 nF
Additional text	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 (in acc. with EN 60079-11)

### Standards and Regulations

Standards/regulations	EN 61326-1
	EN 60079-0

# Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

## Technical data

### Standards and Regulations

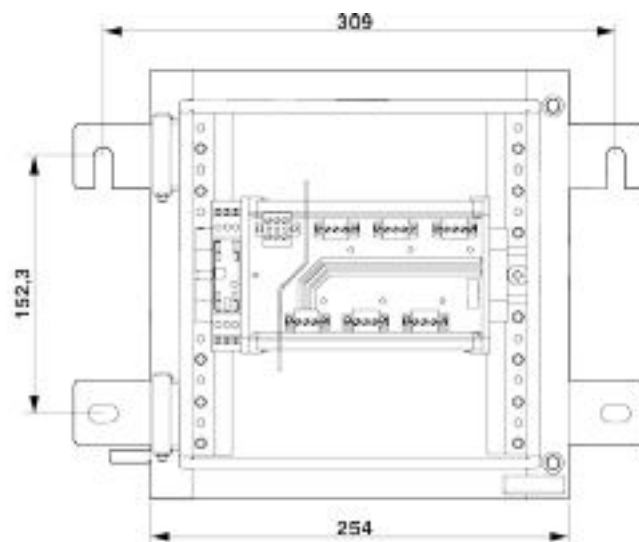
	EN 60079-11
	EN 60079-15
Conformance	CE-compliant, additionally EN 61326-1
Group	IIC/IIB
	IIC/IIB
ATEX	DEMKO 16ATEX1704X II 3 G D Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc Ex ic IIC T4 Gc, FISCO ic spurs Ex tc IIIC T135 Dc IP66
IECEX	IECEX UL 16.0079X Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc 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
------------	----------------

## Drawings

Dimensional drawing



# Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

## 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

### 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

## Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

### Accessories

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

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.

---

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.

---

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.

---

## Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

### Accessories

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.

---

### Flat nut

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



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

---

### Full screw connection

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

---

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

---

### Plug for cable screw gland

## Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

### Accessories

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

---

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

---

### 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.

---

### Pressure compensation element

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

---

### Seal

## Junction box - FB1-S1-6SP-T-0-10-00-0-0 - 2316420

### Accessories

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

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

