

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	
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 μ 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

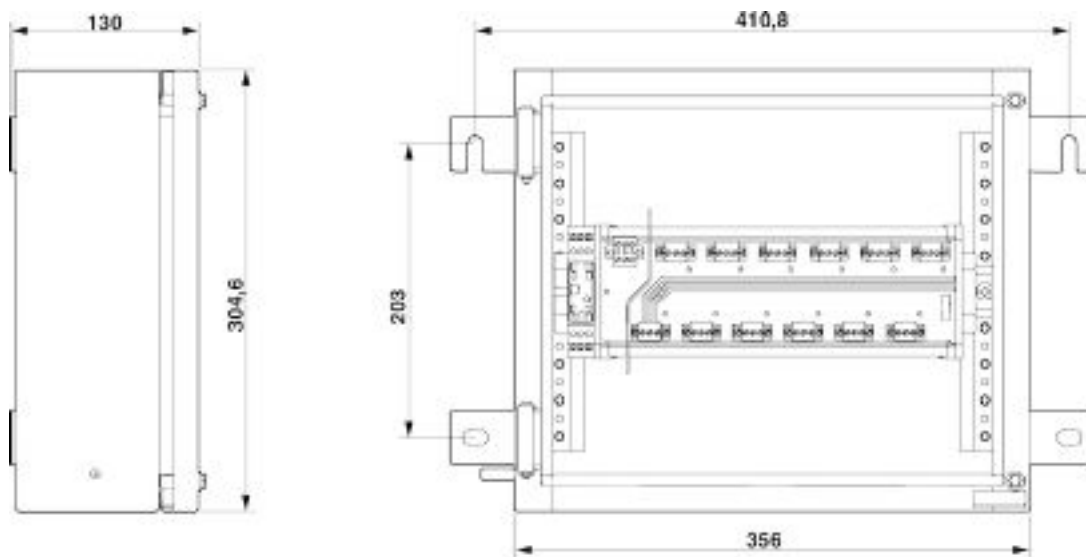
	Ex ic IIC T4 Gc, FISCO ic spurs Ex tc IIIC T135 Dc IP66
IECEX	IECEX UL 16.0079X Ex nA [ic] IIC T4 Gc, Ex nA nC [ic] IIC T4 Gc Ex ic IIC T4 Gc, FISCO ic spurs Ex tc IIIC T135 Dc IP66
UL, USA/Canada	Class I, Zone 2, AEx nA [ic] IIC T4 Gc, AEx nA nC[ic] IIC T4 Gc Entity/ FISCO spurs Class I, Div. 2, Groups 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

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

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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.

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.

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

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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

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

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

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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

Seal

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



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

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