

Features

- Standard enclosure for FB-System
- Max. 48 slots for I/O modules
- For PROFIBUS DP, PROFIBUS DP V1 and MODBUS RTU
- Redundancy (field bus and power supply)
- Electropolished enclosure, IP66/NEMA 4X
- Packaged certified solution
- Installation in Zone 1

Function

This field unit is designed to meet the requirements of the most demanding hazardous area and industrial environmental applications.

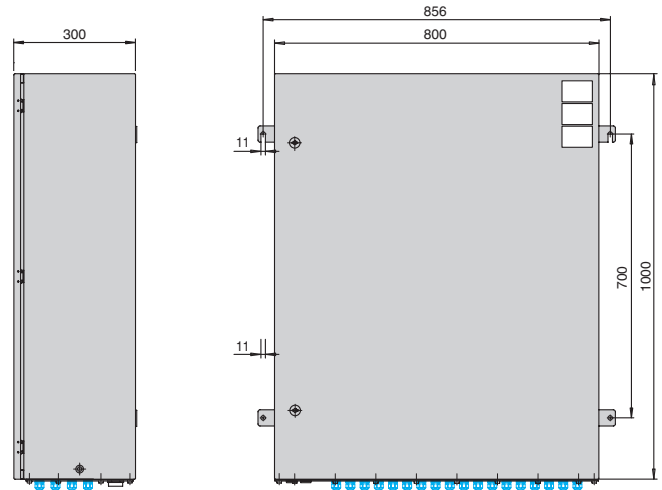
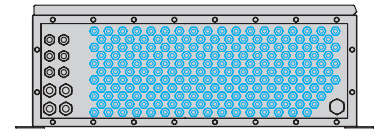
Electropolished stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range. The integrated rain channel prevents standing water from damaging the one-piece seal.

It is equipped with plug-in slots for 24 dual width I/O modules or 48 single width I/O modules.

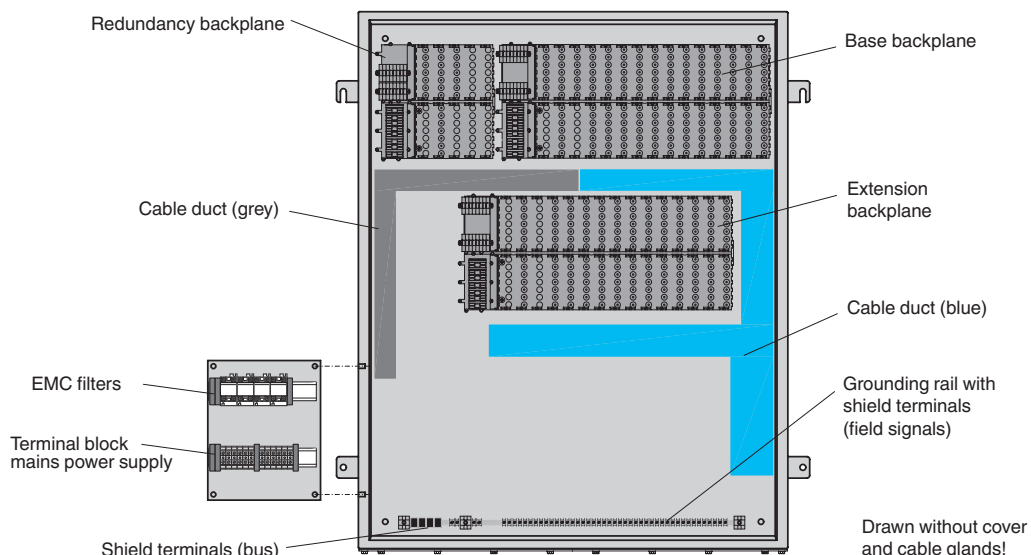
Any I/O module can be inserted into any slot, enabling a mixture of I/O types in one field unit.

The fieldbus and power supply are equipped with redundant connections.

Assembly



Connection



Drawn without cover and cable glands!

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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Slots	
Bus coupler	2
Bus termination	2
Supply	4
I/O modules (single width)	max. 48
I/O modules (dual width)	max. 24
Supply	
Connection	screw terminals, max. 10 mm ²
Rated voltage U_r	24 V DC/115 V AC/230 V AC , depends on power supply
Redundancy	yes
Fieldbus interface	
Fieldbus type	PROFIBUS DP/DP-V1 or MODBUS RTU , depends on bus coupler
Connection	spring terminal, max. 2.5 mm ²
Redundancy	yes
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1
Conformity	
Degree of protection	EN 60529
Impact resistance	EN 60079-0
Ambient conditions	
Ambient temperature	-20 ... 40 °C (-4 ... 104 °F) higher temperature range possible by individual assessment of the module assembly
Storage temperature	-25 ... 70 °C (-13 ... 158 °F)
Relative humidity	< 75 % (annual mean) < 95 % (30 d/year), no moisture condensation
Shock resistance	shock type I, shock duration 11 ms, shock amplitude 15 g, number of shocks 18
Vibration resistance	frequency range 10 ... 150 Hz; transition frequency: 57.56 Hz, amplitude/acceleration \pm 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration \pm 1 mm/0.7 g; 90 minutes at each resonance
Impact resistance	7J
Mechanical specifications	
Enclosure cover	hinged door with cam lock and double-bit insert
Degree of protection	IP66, NEMA 4X
Cable entry	power supply (Ex e): 4 x M25 bus (Ex e): 6 x M20 field signals (Ex i): 192 x M16
Material	
Housing	stainless steel 1.4404 / AISI 316L
Surface	electropolished
Cable gland	Polyamide (PA)
Seal	enclosure cover: polyurethane gland plate: polymer (CR) cable gland: neoprene
Material thickness	enclosure body: 1.2 mm enclosure cover: 1.5 mm gland plate: 3 mm mounting base: 3 mm
Mass	approx. 75 kg , without modules
Dimensions	(W x H x D) 800 x 1000 x 300 mm (31.5 x 39.4 x 11.8 inch)
Mounting	thru-holes \varnothing 11 mm
Grounding	grounding bolt M10 , brass
Data for application in connection with hazardous areas	
EU-Type Examination Certificate	PTB 97 ATEX 1075 X
Marking	Ex II 2(1)G Ex d e mb [ia Ga/ib] IIC T4 Gb Ex II 2(1)D Ex tb [ia Da/ib] IIIC T130°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-1:2007 , EN 60079-7:2007 , EN 60079-11:2012 , EN 60079-18:2009 , EN 60079-31:2014
International approvals	
INMETRO	TÜV 13.1140
Marine approval	
Lloyd Register	15/20021
DNV GL Marine	TAA0000034

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American Bureau of Shipping	T1450280/UN
General information	
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

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