



FB Remote I/O Field Unit

FB9248-T7*-*-*-*_*_*-Y*

- Preconfigured enclosures for engineered FB systems
- Installation in Zone 1 and Zone 21
- Installation in Zone 2 and Zone 22
- Max. 48 slots for I/O modules
- Impact resistance enclosure, IP66
- For PROFIBUS DP, PROFIBUS DP V1, MODBUS RTU and MODBUS TCP
- Image is generic for this device type and may deviate from the specific variant

Field Unit, Stainless Steel



Function

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

Brushed stainless steel 316L provides high corrosion and impact resistance at a very wide temperature range.

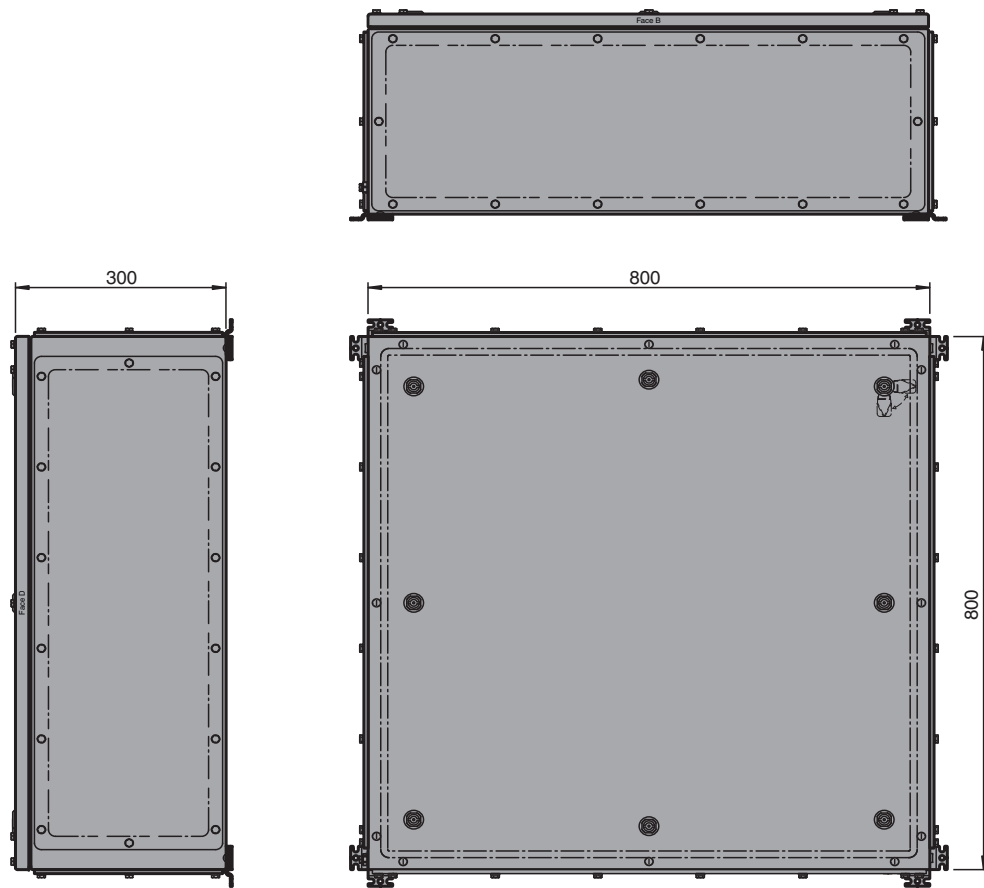
It is equipped with a base- and an extension backplane.

It provides 48 slots for I/O modules.

The I/O modules can be plugged anywhere on each slot.

The fieldbus and power supply are equipped with non-redundant connections.

Dimensions



Technical Data

General specifications	
Installed components	backplane FB9262BP24110.x backplane FB9262BP24200.x
Slots	
Bus coupler	1
Bus termination	1
Supply	2
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	no
Fieldbus connection	
Fieldbus type	PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP , depends on bus coupler
Connection	spring terminal, max. 2.5 mm ²
Redundancy	no
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61439-1:2012 (J.9.2.2 b) , EN 61439-2:2012
Conformity	
Degree of protection	EN 60529

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Technical Data

Impact resistance	EN 60079-0
Ambient conditions	
Ambient temperature	-20 ... 40 °C (-4 ... 104 °F) further on request
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 ± 0.075 mm/1 g; 10 cycles frequency range 5 ... 100 Hz; transition frequency: 13.2 Hz amplitude/acceleration ± 1 mm/0.7 g; 90 minutes at each resonance
Impact resistance	7J
Mechanical specifications	
Enclosure cover	hinged door with quarter-turn key locks
Cover seal	foamed silicone
Degree of protection	IP66
Cable entry face B	
M16 quantity	192
M16 series	Cable Glands, Plastic
M16 type	CG.PIDS1.M16.*
M16 clamping range	4 ... 8 mm
M16 info	field signals
M20 quantity	4
M20 series	Cable Glands, Plastic
M20 type	CG.PEDS1.M20.*
M20 clamping range	6 ... 12 mm
M20 info	Fieldbus
M25 quantity	2
M25 series	Cable Glands, Plastic
M25 type	CG.PEDS1.M25.*
M25 clamping range	10 ... 18 mm
M25 info	Power Supply
Material	
Enclosure	1.5 mm AISI 316L, (1.4404) stainless steel
Finish	brushed
Cable gland	Polyamide (PA)
Seal	housing: foamed silicone cable gland: chloroprene
Mass	approx. 50 kg , without modules
Dimensions	
External dimension (A)	800 mm
External dimension (B)	800 mm
External dimension (C)	300 mm
Mounting	4 Mounting bracket for wall mounting included in the scope of delivery
Grounding	M8 internal/external brass nickel-plated grounding bolt
Data for application in connection with hazardous areas	
EU-type examination certificate	PTB 97 ATEX 1075 X
Marking	Ⓜ II 2(1)G Ex db eb ia mb q [ia Ga/ib] IIC T4 Gb Ⓜ II 2(1)D Ex tb [ia Da/ib] IIIC T130°C Db
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2018 , EN 60079-1:2014 , EN 60079-5:2015 , EN 60079-7:2015 , EN 60079-11:2012 , EN 60079-18:2015 , EN 60079-31:2014
General information	
Ordering information	This device will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.

Technical Data

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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