



## FB Remote I/O Field Unit

FB9241-T8\*-\*-\*\*\*-\*\*-\*-Y\*

- Preconfigured enclosures for engineered FB systems
- Installation in Zone 1 and Zone 21
- Installation in Zone 2 and Zone 22
- Max. 40 slots for I/O modules
- Impact resistance enclosure, IP66
- Redundancy (field bus and power supply)
- 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 which allows redundancy in gateway and power supply. It provides 40 slots for I/O modules. The I/O modules can be plugged anywhere on each slot. The fieldbus and power supply are equipped with redundant connections.



## Technical Data

<b>Supply</b>		
Connection		screw terminals, max. 10 mm <sup>2</sup>
Rated voltage	U <sub>r</sub>	24 V DC/115 V AC/230 V AC , depends on power supply
Redundancy		yes
<b>Fieldbus connection</b>		
Fieldbus type		PROFIBUS DP/DP-V1, MODBUS RTU, or MODBUS TCP , depends on bus coupler
Connection		spring terminal, max. 2.5 mm <sup>2</sup>
Redundancy		yes
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61439-1:2012 (J.9.2.2 b) , EN 61439-2:2012
<b>Conformity</b>		
Degree of protection		EN 60529
Impact resistance		EN 60079-0
<b>Ambient conditions</b>		
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
<b>Mechanical specifications</b>		
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		6
M20 series		Cable Glands, Plastic
M20 type		CG.PEDS1.M20.*
M20 clamping range		6 ... 12 mm
M20 info		Fieldbus
M25 quantity		4
M25 series		Cable Glands, Plastic
M25 type		CG.PEDS1.M25.*
M25 clamping range		10 ... 18 mm
M25 info		Power Supply
Terminal assembly		
Number of horizontal rails		4
Usable length per horizontal rail		250 mm
Terminal type		max. 192 spring terminal or screw terminal
Material		
Enclosure		1.5 mm AISI 316L, (1.4404) stainless steel
Finish		brushed
Cable gland		Polyamide (PA)
Seal		housing: foamed silicone cable gland: chloroprene

## Technical Data

Mass	approx. 75 kg , without modules
<b>Dimensions</b>	
External dimension (A)	1000 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
<b>Data for application in connection with hazardous areas</b>	
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
<b>Directive conformity</b>	
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
<b>General information</b>	
Ordering information	This device will be delivered completely configured and assembled ready for use. For configuration details please contact Customer Service.
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 <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .