



Gateway for PROFINET FB8222B.1.EL

- Communication via PROFINET
- Installation in suitable enclosures in Zone 1
- Interface between the I/O modules and the PCS/PLC
- Non-volatile memory for configuration and parameter settings
- Permanently self-monitoring
- MRP and S2 redundancy
- HART communication via HART-IP
- Shared Device und Dynamic Reconfiguration

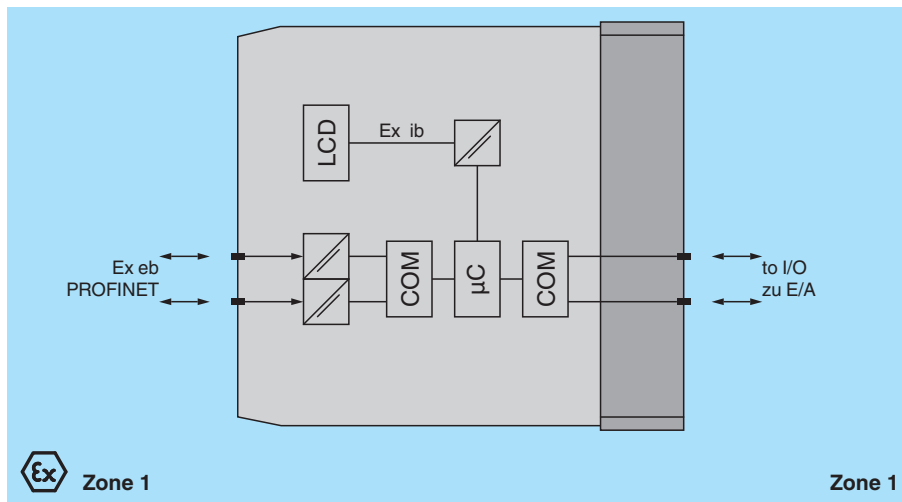
Gateway for PROFINET



Function

The PROFINET gateway is the interface between the I/O modules on the backplane and the control system. HART communication is via PROFINET or HART-IP. In addition to the input/output data of the I/O modules, the HART auxiliary variables can also be accessed in the process image.

Connection



Technical Data

| Supply | |
|---------------------|---|
| Connection | backplane bus |
| Nominal voltage | 12 V DC , only in connection with the power supplies FB92** |
| Power dissipation | 4.24 W |
| Power consumption | 4.24 W |
| Fieldbus connection | |
| Fieldbus type | PROFINET |
| Ethernet Interface | |
| Connection type | M12 , via front connector |
| Transfer rate | 10BASE-T, 100BASE-TX 100 MBit/s |
| Station connection | directly to PCS or PLC or via hubs or switches |
| Cable type | SFTP in accordance with ISO/IEC 11801 for Cat 5e or better |

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Technical Data

| | |
|--|--|
| Bus length | max. 100 m per link |
| Addressing | DHCP or fixed IP address |
| Ethernet address | IP V4 address (factory standard setting: 0.0.0.0, auto IP, DHCP) |
| Supported I/O modules | FB1x01*...FB1x03*, FB1x08*, FB1x09*, FB2x01*...FB2x17*, FB3x01*...FB3x06*, FB4x01*, FB4x02*, FB4x04*...FB4x06*, FB5x01*, FB5x02*, FB5x04*...FB5x06*, FB6x01*, FB6x05*, FB6x06*, FB6x08*, FB6x10*...FB6x17*, FB7x04 |
| PROFINET conformance class | CC B |
| Internal bus | |
| Connection | backplane bus |
| Galvanic isolation | |
| Ethernet/other circuits | basic insulation according to IEC/EN 61010-1, rated insulation voltage 32 V DC (SELV/PELV) |
| RS 485 interface/other circuits | basic insulation according to IEC/EN 61010-1, rated insulation voltage 50 V DC |
| Insulation voltage | 1500 V AC acc. to IEEE 802.3u |
| Electrical isolation | |
| Power supply, internal bus/other circuits | basic insulation according to IEC/EN 61010-1, rated insulation voltage 30 V DC |
| Indicators/settings | |
| LED indication | See below in the front view |
| Directive conformity | |
| Electromagnetic compatibility | |
| Directive 2014/30/EU | EN 61326-1:2013 |
| Conformity | |
| Electromagnetic compatibility | NE 21 |
| Degree of protection | IEC 60529 |
| Environmental test | EN 60068-2-14 |
| Shock resistance | EN 60068-2-27 |
| Vibration resistance | EN 60068-2-6 |
| Damaging gas | EN 60068-2-42 |
| Relative humidity | EN 60068-2-78 |
| Ambient conditions | |
| Ambient temperature | -20 ... 60 °C (-4 ... 140 °F) |
| Storage temperature | -25 ... 85 °C (-13 ... 185 °F) |
| Relative humidity | 95 % non-condensing |
| 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 |
| Damaging gas | designed for operation in environmental conditions acc. to ISA-S71.04-1985, severity level G3 |
| Mechanical specifications | |
| Degree of protection | IP20 (module) , a separate housing is required acc. to the system description |
| Connection | via backplane |
| Mass | approx. 965 g |
| Dimensions | 57 x 107 x 151 mm |
| Data for application in connection with hazardous areas | |
| EU-type examination certificate | PTB 19 ATEX 2007 U |
| Marking | ⊕ II 2G Ex db eb ib q IIC Gb |
| Directive conformity | |
| Directive 2014/34/EU | EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-5:2015 EN 60079-7:2015 EN 60079-11:2012 |
| International approvals | |
| ATEX approval | PTB 19 ATEX 2007 U |
| IECEx approval | |

Technical Data

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|----------------------------|--|
| IECEX certificate | IECEX PTB 19.0025U |
| IECEX marking | Ex db eb ib q IIC Gb |
| General information | |
| System information | The module may be installed only in the associated backplanes FB9262BP*.2 in Zone 1, Zone 2, or outside the hazardous area. Observe the corresponding EC-type examination certificate. |
| 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 . |

Assembly

