Ready for Tomorrow's Challenges.

FB Remote I/O for Zone 1

Bridging Classic Interfaces to the IIoT in Process Industries

ATEX IECEx HART IP20

System Attributes

- Can be exchanged under power and voltage (hot swap)
- Permanently self monitoring
- Simulation mode for service operations (forcing)
- Ambient temperature –40 °C ... +60 °C (–40 °F ... +140 °F)
- 80 analog or 184 digital channels

System Wide Properties

- Inputs with plug-in terminals and line fault detection

Com Units

Interface between the I/O modules and the PCS/PLC and non-volatile memory for configuration and parameter settings.

PROFIBUS/MODBUS

Zone 1/21 Ex i

- Communication via PROFIBUS DP/MODBUS
- Configuration via FDT 1.2 DTM or GSD
- Application and line redundancy

PROFINET

Zone 1/21 Ex i

- Communication via PROFINET
- MRP and S2 redundancy
- Configuration via GSD

Universal Input/Output

Zone 1/21 Ex e Ex i

- 4-channel
- Inputs with plug-in terminals and Line fault detection are system wide properties

Analog Input and Output

Zone 1/21 Ex i SIL 2

Input

- 1- or 4-channel
- 1 or 2 occupied slots
- Power supply for 2-wire, 3-wire, 4-wire transmitter
- Flow, level and temperature converter

Output

- 1- or 4-channel
- 1 or 2 occupied slots
- I/P converters
- Proportional valve
- On-site display
- Bus-independent safety shutdown

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Digital Input and Output

Input

- 8-channel
- 2 occupied slots
- Dry contact or NAMUR inputs
- On/off delay

Output

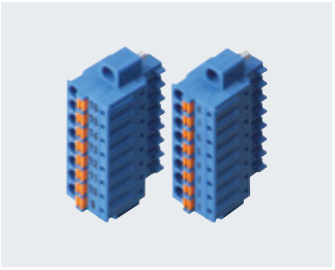
- 2- or 4-channel
- 1 or 2 occupied slots
- Output logic selectable
- Bus-independent safety shutdown

Power Supply

- Input voltage 24 V DC or 230 V AC

Accessories

The **field unit enclosures** ensure protection of all electronic components from harsh ambient conditions. GRP and electropolished stainless steel are available as enclosure materials.



Terminal blocks are selectable in the form of screw terminals, front screw terminals, or spring terminals.

The **multifunction terminal** consists of a base module and a plug-in module.

Bus termination modules prevent the reflection of signals at the end of the bus line.

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High Flexibility with Dynamic Reconfiguration

With the help of dynamic reconfiguration, the PROFINET LB and FB remote I/O systems from Pepperl+Fuchs not only allow to change the settings of field devices. They even extend this concept to the pluggable I/O modules, which can also be freely configured regarding signal type and number. This offers maximum flexibility and reduced effort and time, for example when replacing a module.

Shared Device—Manage up to 184 In- or Outputs

The remote I/O is also a shared device for multiple controllers and systems. Via the engineering, up to 184 inputs or outputs can be configured and assigned to any controller on one LB or FB remote I/O station. Thus users can reduce instruments, piping, wiring and the number of control cabinets significantly.

More information
pepperl-fuchs.com/tx-RIO