

Depend on it

The reliable FieldBusPlug product system



ABB

Simplifying is good ...

Decentralised automation technology has shown the great advantages that can be gained by using intelligent on-site components in modern machine and system construction. This development now increasingly includes the area of conventional switching technology. Switching devices are increasingly becoming multifunctional modules with integrated communication interfaces for fieldbus connection. This leads on the one hand to a considerable reduction of the previously necessary wiring costs but allows a dramatic increase in the number of networkable modules in the control cabinet and in the field on the other. And due to the many different bus systems, the number of modules capable of communication with the same functions is expanding rapidly ...

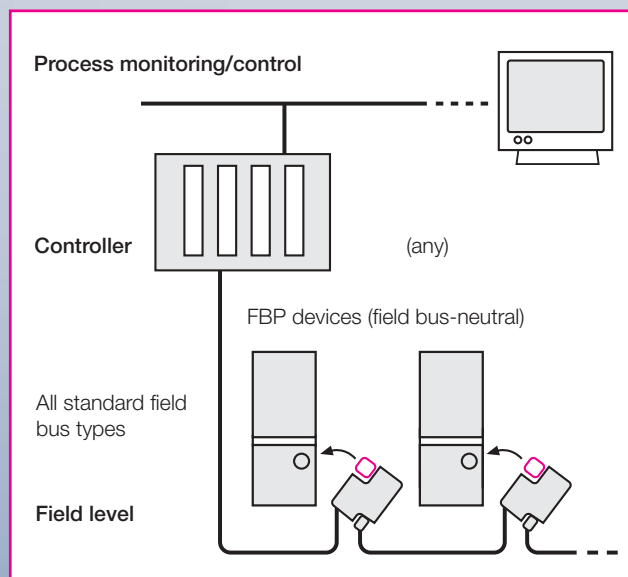




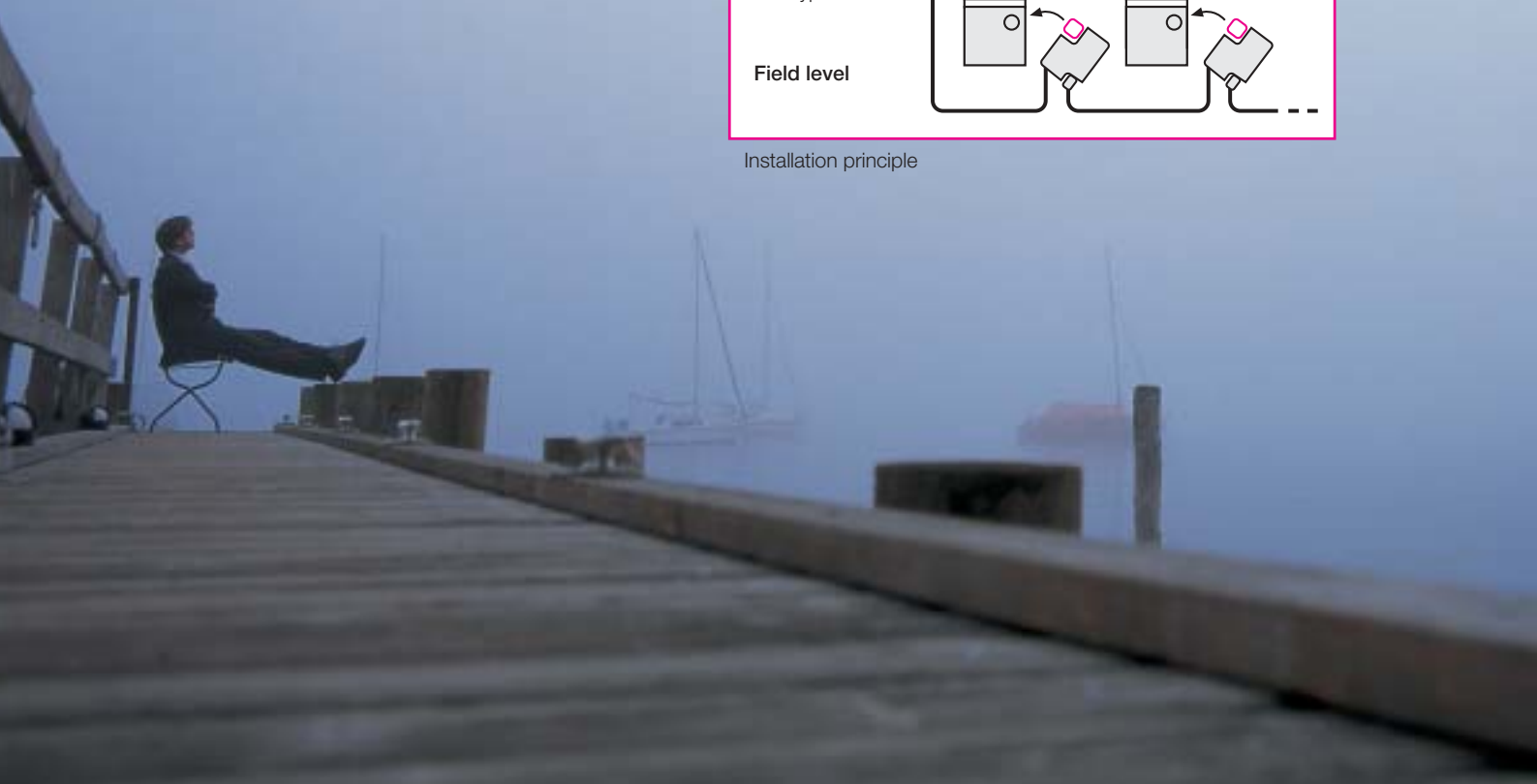
... relieving is better.

With the FieldBusPlug System – FBP for short, ABB now provides a series of control gear and automation components with an innovative field bus plug system. The individual modules are bus-neutral, the connection is made via a respective bus-specific plug, the so-called FieldBusPlug. Many of the modules in this new installation concept have practical functions, graduated according to applications. And all of them can be connected to standard field buses and automation systems via the FBP plug – smoothly and absolutely reliably. Besides standard sensors, above all control gear and automation components belong to the FBP product family in levels suited to performance, for example, devices for motor protection and motor control. All modules can be used independently of the applied field bus systems producing the most reliable conditions for future requirements. Furthermore, extensive standardisations and integrated diagnosis functions provide a high degree of safety and also scope for new solutions.

Advantages in all project phases



Installation principle



Shorter throughput and realisation times

- > Pre-assembled elements and completely co-ordinated function modules for considerably reduced project planning costs.
- > Standardised plug-in field bus connections for cost-effective production and maximum flexibility.

Higher product quality

- > Assembled devices, plug technology and reduced wiring costs prevent faults.
- > Standards make general planning and project planning more reliable, the assembly more effective and reduce the commissioning time.



Display of motor operation data



Connection to the bus by plug connection

Increased availability

- > Extensive diagnostic functions.
- > Preventive maintenance through preventive diagnosis.

Shorter service and downtimes

- > Simple handling.
- > Trouble-free conversion

Smaller control cabinets

- > Compact devices with high functionality.
- > Complete devices for on-site assembly.

Universal transparency

- > Independent of bus system.
- > Communication ability far into the process.

Increased punctuality of delivery

- > Reduced fault risks enable more reliable scheduling.
- > Tried and tested technology increases the reliability.

Focus on advantages



Components for motor circuits



Motorstarter Direct MSD11-FBP

- > Compact design
- > Flexibility of assembly type
- > Economical power supply
- > Direct connection of PE from the top-hat profile rail to the motor connection plug
- > Control voltage either via bus cable or external supply
- > Device change without removing the comb-shaped bar
- > Front control, display and connection elements



Motorstarter Reverse MSR22-FBP

- > Very compact design (only 45 mm wide)
- > Flexibility of assembly type
- > Economical power supply
- > Direct connection of PE from the top-hat profile rail to the motor connection plug
- > Control voltage either via bus cable or external supply
- > Device change without removing the comb-shaped bar
- > Front control, display and connection elements



Motorstarter Fieldbus Interface MFI21-FBP

- > Integrated motor control functions
- > Preventive diagnostic functions
- > Integrated time adjustment of the start-up or reversal time
- > Control voltage via bus cable or terminal
- > Front control, display and connection elements
- > Time-saving assembly of complete starter by simply clicking on the MS 325



Universal Motor Controller UMC22-FBP

- > Integrated motor control functions
- > Preventive diagnosis functions
- > A device for all currents from 0.2 ... 63 A
- > Time adjustment of start-up and reversal times
- > Storage of set device data in the converter part
- > Control voltage via bus cable or terminal
- > Front control, display and connection elements



Relevant certifications

As with all ABB products, also the FBP components are tested in accordance with European, North American and international guidelines and are approved by the companies responsible. These include GL, DNV, BV, RINA, LRS, CSA and UL. The products carry the CE identification.



Certified quality

The fact that the entire developing process of an ABB product, from the idea right through to the sale, is subject to a quality management system certified to DIN ISO 9001 is something we take for granted.

In harmony with the environment

Protection of the environment is a central theme for ABB. It includes protection of resources and avoidance of harmful materials as well as manufacturing products which are recyclable and durable. These aspects are taken into account by the implementation of an integrated environmental management system to ISO 14001 which is regularly checked through environmental audits. A Life Cycle Assessment is currently being undertaken by ABB for new product developments.



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