

## Fipio "Economy plus" Bus Coupler

With the Fipio Bus Coupler, the Bus Terminal system has been expanded with a further fieldbus alternative. FIP complies with the European standard EN 50170 and receives manufacturer-independent support from the WorldFIP organization. The WorldFIP organization comprises approximately 80 international companies, mainly from France, Italy and Great Britain. Schneider Electric is one of the leading companies within WorldFIP. Schneider developed chips for the implementation of FIP in field devices at an early stage. Within its own devices, Schneider Electric has integrated FIP as a fieldbus under the name of Fipio.

Fipio is generally used in conjunction with Schneider Electric PLC systems. The market penetration of Fipio therefore follows that Schneider Electric automation technology, most notably in countries such as France, Italy and Spain.

The BK7420 Bus Coupler connects the Fipio bus system with up to 64 Bus Terminals or up to 255 terminals if the K-Bus extension is used. The Bus Coupler automatically recognizes the connected terminals and activates the relevant transfer profile.

The typical number of participating devices is 32 per segment for the electrical connection; up to 4 segments with repeaters are permitted. The address is set via two hexadecimal address switches. The maximum baud rate for the communication with the Bus Coupler is 1 Mbaud. The Bus Coupler automatically detects the rate.

→ Further information: [www.worldfip.org](http://www.worldfip.org)



### Technical data

- | Number of I/O stations: 256
- | Number of I/O points: master-dependent
- | Data transfer medium: shielded, twisted two-wire cable (150 Ω characteristic impedance)
- | Segment length: 1000 m without amplifier
- | Data transfer rate: 1 Mbaud
- | Transfer profile: automatic switching FRD (4 bytes), FSD (16 bytes) and FED (64 bytes)
- | Digital peripheral signals: 512 inputs/outputs
- | Analog peripheral signals: 32 inputs/outputs
- | Max. number of bytes: 64 bytes input and 64 bytes output
- | Baud rates: automatic detection up to max. 1 Mbaud
- | Bus connection: 1 x D-sub socket, 9-pin with shielding