

Item	Item-No.
BES212	00012847-00
BES212 / N	00012848-00

BES212, BES212/N Bus Expansion Modules

With the bus expansion module BES212 and BES212/N a »high speed« connection up to 3 m away is possible with less than 1.5 $\,$ μs access time to distributed I/O units. Up to six distributed substations can be directly interconnected in a daisy chain topology. Each substation can in turn handle up to 15 M1 standard modules.

The wiring using RJ45 connectors is one advantage of this new technology. Thus wiring is significantly facilitated. A special protocol is not required to use the I/Os with the bus expansion. The user can access these modules directly: As if they were local.

The bus expansion module BES212 / N with integrated 24 V power supply provides power for the substation.

- Bus expansion slave module with 2 interfaces
- Bus expansion slave module optionally with integrated power supply
- Up to 6 local substations
- · Minimal signal delay
- Distances of up to 3 m between 2 stations
- Integrated watchdog on slave modules

BES212, BES212/N		
Bus expansion interface		
Line length	3 m	
Transmission medium	CAT7 special cable	
Max. number of stations	6 (BES212/N)	
Integrated power supply (optional)		
Voltage range	18 to 34 VDC	
Current consumption	Max. 1.2 A at 24 V	
Nominal power	17 W	
Output current at +5 V	2 A	
Output current at +15 V	250 mA	
Output current at -15 V	200 mA	
Reverse polarity protection	Yes	
Approvals / Certificates		
General	CE, cULus, CCC	
Ambient conditions		
Operating temperature	-30 to +60 °C	
Rel. humidity operation	5 to 95 % without condensation	
Storage temperature	-40 to +85 °C	
Rel. humidity storage	5 to 95 % without condensation	
Pollution degree	2 (without condensation; according to IEC 60664-1)	

Order Codes		
Item	ltem No.	Description
BES212	00012847-00	Bus expansion slave module with 2 interfaces (up to 6 stations)
BES212/N	00012848-00	Bus expansion slave module with 2 interfaces and integrated power supply 17 W (up to 6 stations)
Accessories		
KZ 51/03 B	00012052-00	Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip
K-BE211/0.5 m	00012931-00	Cable bus expansion with RJ45 connector with 0.5 meter, converted
K-BE211/1.0 m	00012931-01	Cable bus expansion with RJ45 connector with 1.0 meter, converted
K-BE211/2.0 m	00012931-03	Cable bus expansion with RJ45 connector with 2.0 meter, converted
K-BE211/3.0 m	00012931-02	Cable bus expansion with RJ45 connector with 3.0 meter, converted