



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 <math>< 1.5 \mu\text{s}</math> access time) to distributed I/O units. Up to 6 distributed SubDevices can be directly interconnected in a daisy chain topology. Each SubDevice can in turn handle up to 15 M200 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 SubDevice.

Features

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

Part type designation	Part number
BES212	00012847-00
BES212/N	00012848-00

BES212, BES212/N

Bus expansion interface	
Cable length	3 m
Transmission medium	CAT7 special cable
Max. number of stations	6 (BES212/N)
Integrated power supply (optional)	
Voltage range	18 V DC to 34 V DC
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, UKCA, cULus
Environmental conditions	
Operating temperature	-30 °C to +60 °C
Relative humidity, operation	5 % to 95 % noncondensing
Storage temperature	-40 °C to +85 °C
Relative humidity, storage	5 % to 95 % noncondensing
Pollution degree acc. IEC 60664-1	2 (noncondensing)

Order data

Part type designation	Part number	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

Part type designation	Part number	Description
KZ 51/03 B	00012052-00	Terminal 03-pin pitch 5.08; cage clamp with labeling strips
K-BE211/0.5 m	00012931-00	Cable bus expansion with RJ45 connector with 0.5 m
K-BE211/1.0 m	00012931-01	Cable bus expansion with RJ45 connector with 1.0 m
K-BE211/2.0 m	00012931-03	Cable bus expansion with RJ45 connector with 2.0 m
K-BE211/3.0 m	00012931-02	Cable bus expansion with RJ45 connector with 3.0 m