



FASTBUS

FASTBUS Modules Fx210 Series

The FASTBUS modules, FM211, FM212, FS211/N, and FS212/N are designed to enable distribution of substations over long distances with a very low signal delay. The power supply integrated in the FASTBUS slave modules, FS211/N and FS212/N can supply the I/O modules of a substation.

- FASTBUS master modules with 1 or 2 FO interfaces
- FASTBUS slave modules with 1 or 2 FO interfaces
- FASTBUS slave modules with integrated power supply
- Up to 15 distributed substations
- Distances to 40 m for POF cable, 150 m for HCS cables or 200 m for special HCS cables between 2 stations
- Status display (RUN/ERR) and display for fiber type
- Minimal signal delay

Item	Item no.
FM211	00017821-00
FM212	00017822-00
FS211/N	00017823-00
FS212/N	00017824-00

Fx210 Series		
FASTBUS interface		
Line length	40/150/200 m between the stations, Total length max: 1000 m	
Transmission medium	Plastic Optical Fiber (POF) max. 40 m (POF sometimes also referred to as PMMA) Hard Cladded Silica (HCS) max. 150 m (HCS sometimes also referred to as Plastic Silica Fiber (PCF)) Special HCS cable 200 m	
Number of stations	Max. 16	
Integrated power supply		
Input voltage	24 VDC (18 to 34 V)	
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	
Galvanic isolation from the system	500 V	
Reverse polarity protection	Yes	
Approvals / Certificates		
General	CE, UL/cUL, CCC	
Marine	GL/DNV, LR, ABS, BV	
Ambient conditions		
Operating temperature	0 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	
Order codes		
FM211	00017821-00	FASTBUS master module with 1 FO interface; HCS/PCF 150m or POF 40m
FM212	00017822-00	FASTBUS master module with 2 FO interfaces; HCS/PCF 150m or POF 40m
FS211/N	00017823-00	FASTBUS slave module with 1 FO interface; HCS/PCF 150m or POF 40m; integrated power supply 17 W
FS212/N	00017824-00	FASTBUS slave module with 2 FO interfaces; HCS/PCF 150m or POF 40m; integrated power supply 17 W

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Accessories Fx210 Series

Item	Item no.	Description
LWLP1 connector	00009502-00	Connector for plastic fiber optic cable. 2-line
LWLP1 bush	00009514-00	Bush LWL Plastic per piece
LWLP polishing set	00009696-00	Polishing set for LWL Plastic (HFBR-4593/Hewlett Packard)
LWLP-WKZ1	00010126-00	Skinning tool for LWL Plastic Type RS
LWLP gripper	00009695-00	BNC-Crimpgripper (Pressmaster DCC 1113)
K-LWLP1 0.5m	00009624-02	POF Cable 0.5m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 1.0m	00009624-00	POF Cable 1.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 2.0m	00009624-01	POF Cable 2.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 3.0m	00009624-06	POF Cable 3.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 5.0m	00009624-04	POF Cable 5.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 7.0m	00009624-11	POF Cable 7.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 10.0m	00009624-03	POF Cable 10.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 15.0m	00009624-07	POF Cable 15.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 20.0m	00009624-05	POF Cable 20.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 30.0m	00009624-12	POF Cable 30.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLP1 40.0m	00009624-15	POF Cable 40.0m duplex Plastic Optical Fiber; Fx21x Fastbus
K-LWLH1 2.0m	00010762-07	HCS Cable 2.0m duplex 200µm HCS Fiber; Fx21x Fastbus
K-LWLH1 10.0m	00010762-04	HCS Cable 10.0m duplex 200µm HCS Fiber; Fx21x Fastbus
K-LWLH1 15.0m	00010762-06	HCS Cable 15.0m duplex 200µm HCS Fiber; Fx21x Fastbus
K-LWLH1 90.0m	00010762-01	HCS Cable 90.0m duplex 200µm HCS Fiber; Fx21x Fastbus
K-LWLH1 100.0m	00010762-03	HCS Cable 100.0m duplex 200µm HCS Fiber; Fx21x Fastbus
K-LWLH1 120.0m	00010762-02	HCS Cable 120.0m duplex 200µm HCS Fiber; Fx21x Fastbus
LWLH connector	00010949-00	Connector for LWLH (plug plus crimping sleeve, 4 per cable)
Fiber optic cable housing ZA	00011105-00	housing for 2 LWLH connectors with lock, for the A channel of a Fx21x
Fiber optic cable housing ZB	00011622-00	housing for 2 LWLH connectors with lock, for the B channel of a Fx212
LWLH-WKZ-SET	00010952-00	tool set for LWLH with cutter, Skinning tool, Crimpgripper, Diamond cutter
LWLH/-Cap	00011188-00	Cap for transport protection of fiber connector housing
KZ 51/03 B	00012052-00	Terminal 03-pins grid 5,08; cage clamp terminal with labeling strip