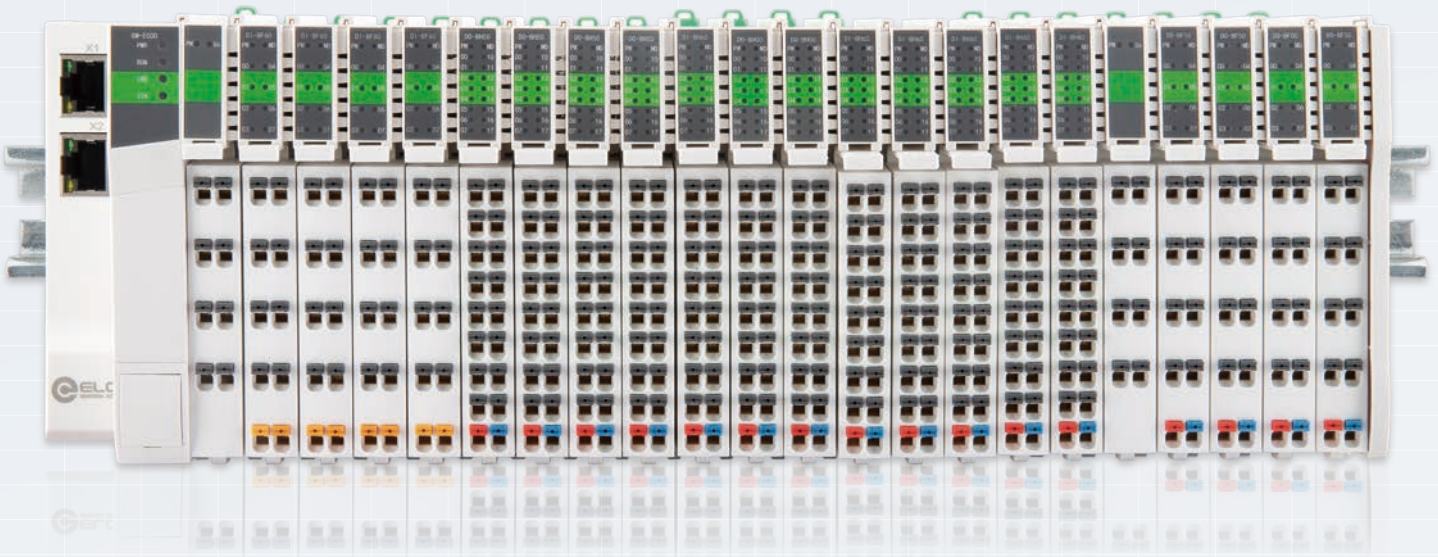


FX20 Series IP20 Modular I/O system





I/O adapter

6/	FX20-GW-EC00	EtherCAT adapter
6/	FX20-GW-PN00	ProfiNet adapter
7/	FX20-GW-EP00	Ethernet/IP adapter
7/	FX20-GW-CE00	CC-LINK IE adapter
8/	FX20-GW-MT00	MODBUS/TCP adapter
8/	FX20-GW-MB00	MODBUS TCP/RTU adapter

Digital input module

9/	FX20-DI-BF60	8-channel input module PNP/NPN
9/	FX20-DI-BH60	16-channel input module PNP/NPN
9/	FX20-DI-BL60	32-channel input module PNP/NPN

Digital output module

10/	FX20-DO-BF00	8-channel output module PNP
10/	FX20-DO-BF50	8-channel output module NPN
11/	FX20-DO-BH00	16-channel output module PNP
11/	FX20-DO-BH50	16-channel output module NPN
12/	FX20-DO-BL00	32-channel output module PNP
12/	FX20-DO-BL50	32-channel output module NPN

Relay output module

13/	FX20-DO-RF00	8DO, SSR, floating ground, AC 230 V, 0.5 A
13/	FX20-DO-RF50	8DO, Relay, floating ground, AC 250 V/DC 30 V, 2 A

Analog I/O module

14/	FX20-AI-BD60	4-channel voltage and current input module
14/	FX20-AI-BF60	8-channel voltage and current input module
15/	FX20-AO-BD60	4-channel voltage and current output module
15/	FX20-AO-BF60	8-channel voltage and current output module

Temperature measuring module

16/	FX20-AI-BD80	4-channel, RTD measurement module
16/	FX20-AI-BD90	4-channel, TC measurement module

Function modules

17/	FX20-SCM-BB00	Dual channel, compatible with RS485/RS422/RS232
18/	FX20-CNT-BB00	Dual channel ABZ three-phase high-speed counting module, 24 V
19/	FX20-LKM-BB00	2-channel IO-Link master station, ClassA/ClassB, 2*32 Bytes
19/	FX20-LKM-BD00	4-channel IO-Link master station, ClassA/ClassB, 4*8 Bytes

Pulse output module

20/	FX20-PGM-BA00	Single channel pulse output module, 24 V
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Auxiliary power module

21/	FX20-PS-AB00	Auxiliary power module, 5 V
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Terminals with color identification

Bus adapter

Note: 1 Bus adapter can connect up to 32 function modules.

EtherCAT

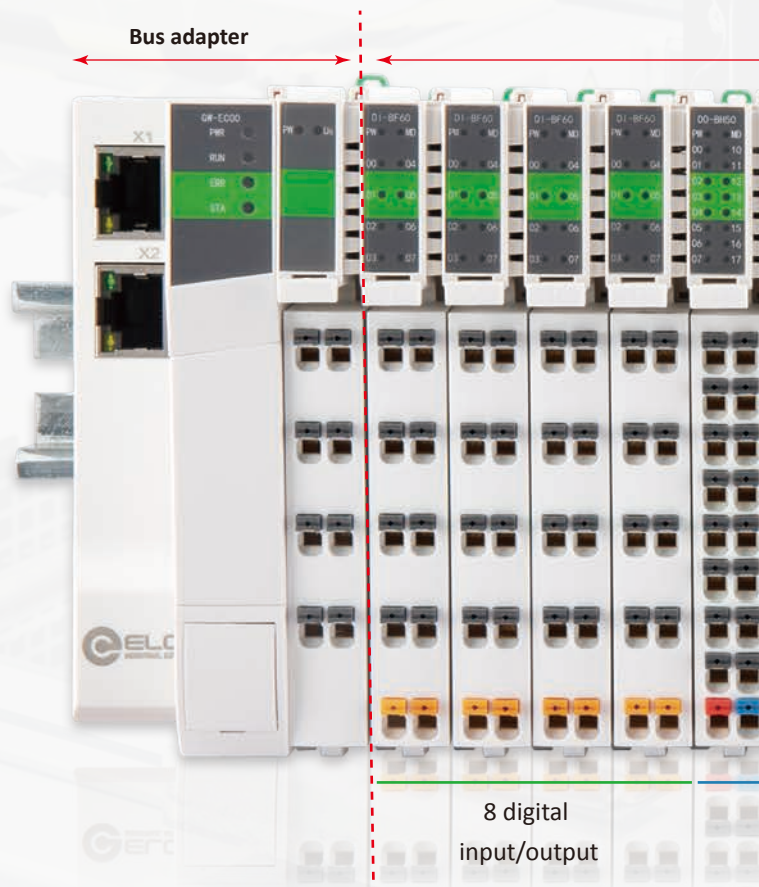
EtherNet/IP

PROFINET

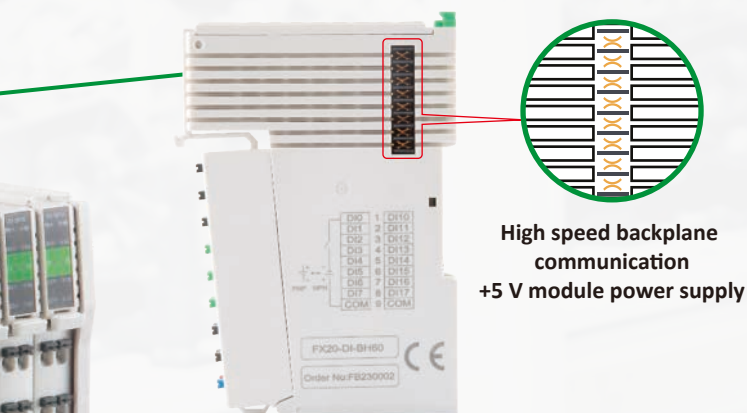
CC-Link IE Basic

Function modules

- Digital input/output - point diagnosis, point protection
- Analog input/output - mixed settings
- High speed counting/pulse output - mainstream frequency



8 digital
input/output



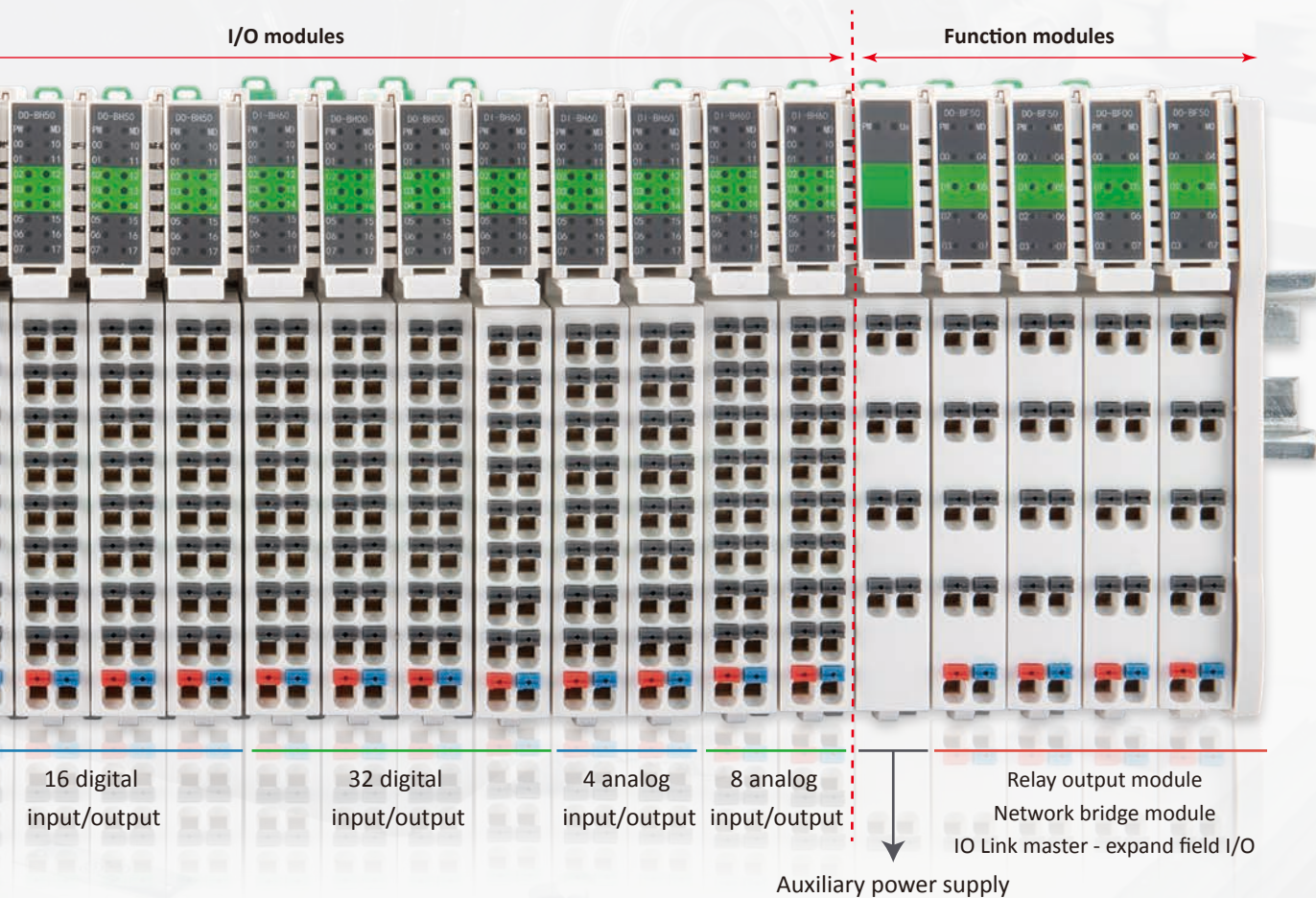
FX20 series IP20 modular I/O system

- Firm structure
- Diagnostic alarm
- Fast installation

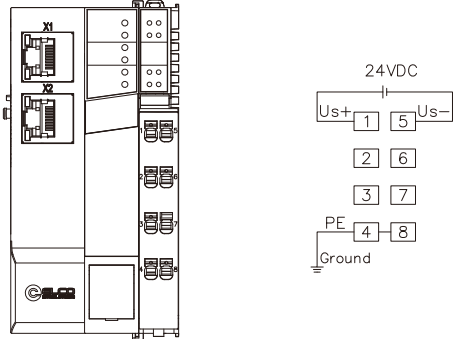
Detachable terminal
Tool free wiring

Terminals' color identification

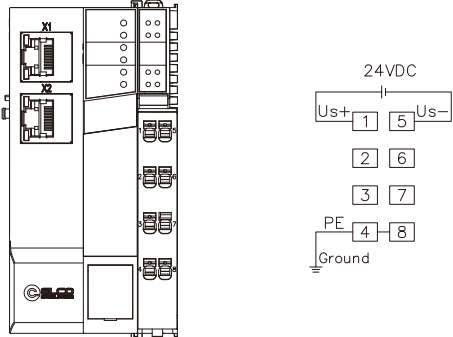
- IO
- 24 V+
- 0 V
- Common terminal



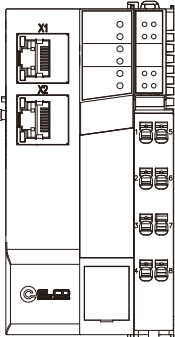
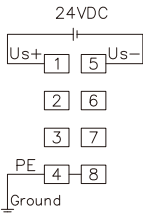
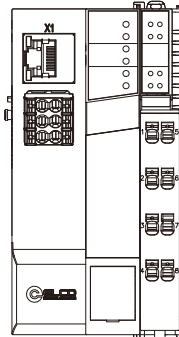
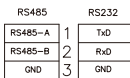
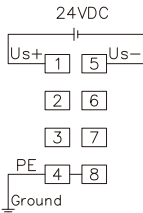
FX20 series IP20 modular I/O system - adapter

		
Ordering data		
Product model	FX20-GW-EC00	FX20-GW-PN00
Description	EtherCAT adapte	ProfiNet adapte
System parameters		
Communication protocol	EtherCAT	ProfiNet
Bus transmission by	Cat.5 cable	Cat.5 cable
Communication rate	100 Mbit/s	100 Mbit/s
Max. communication distance	100 m (100BASE-TX)	100 m (100BASE-TX)
Address range	1-254	0-254
Electrical parameters		
Max. extended I/O modules	32	32
Max. input/output Bytes	512 byte input and 512 byte output	1440 byte input and 1440 byte output
Bus interface	2 x RJ45	2 x RJ45
Working voltage	24 V DC ($\pm 20\%$)	24 V DC ($\pm 20\%$)
Static working current	200 mA	200 mA
Backplane power voltage	5 V DC	5 V DC
Backplane power current	Max. 3 A	Max. 3 A
Electrical isolation	500 V (power supply and bus)	500 V (power supply and bus)
Power protection	Overcurrent, reverse polarity, surge protection	Overcurrent, reverse polarity, surge protection
Diagnosis		
Power indication	LED	
Error indication	LED, communication message	
Communication status	LED, communication message	
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	230 g	
Module size (H x W x D)	79 mm x 57 mm x 110 mm	
Wiring diagram		

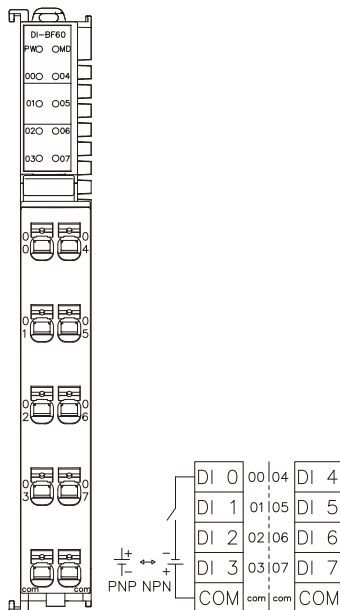
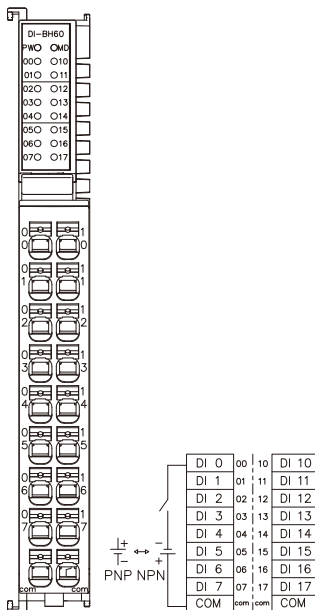
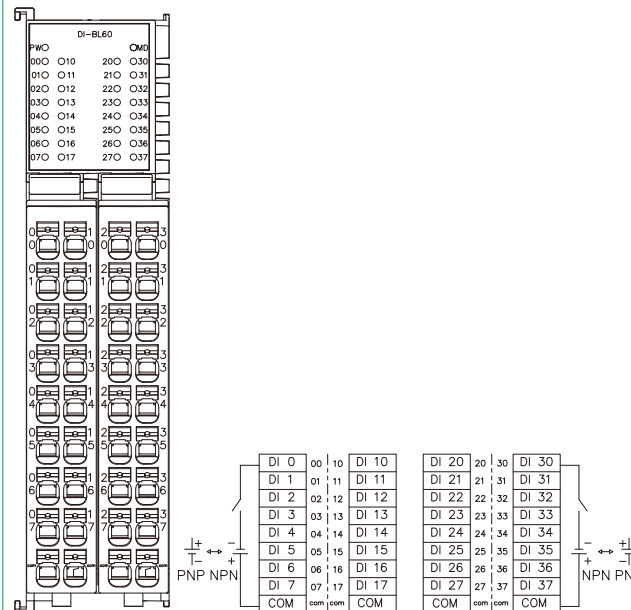
FX20 series IP20 modular I/O system - adapter

		
Ordering data		
Product model	FX20-GW-EP00	FX20-GW-CE00
Description	Ethernet/IP adapte	CC-LINK IE adapte
System parameters		
Communication protocol	Ethernet/IP	CC-Link IE Field Basic
Bus transmission by	Cat.5 cable	Cat.5 cable
Communication rate	100 Mbit/s	100 Mbit/s
Max. communication distance	100 m (100BASE-TX)	100 m (100BASE-TX)
Address range	0-254	0-254
Electrical parameters		
Max. extended I/O modules	32	32
Max. input/output Bytes	504 byte input and 504 byte output	288 byte input and 288 byte output
Bus interface	2 x RJ45	2 x RJ45
Working voltage	24 V DC ($\pm 20\%$)	24 V DC ($\pm 20\%$)
Static working current	200 mA	200 mA
Backplane power voltage	5 V DC	5 V DC
Backplane power current	Max. 3 A	Max. 3 A
Electrical isolation	500 V (power supply and bus)	500 V (power supply and bus)
Power protection	Overcurrent, reverse polarity, surge protection	Overcurrent, reverse polarity, surge protection
Diagnosis		
Power indication	LED	
Error indication	LED, communication message	
Communication status	LED, communication message	
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	230 g	
Module size (H x W x D)	79 mm x 57 mm x 110 mm	
Wiring diagram		

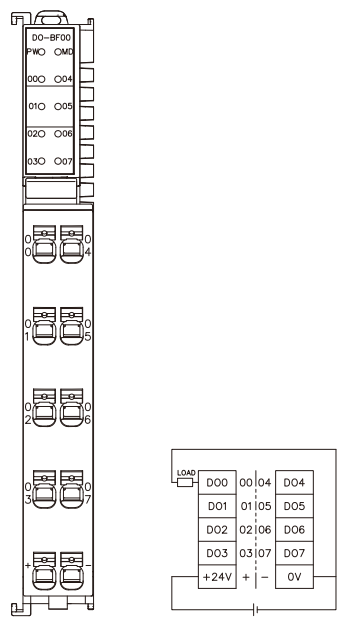
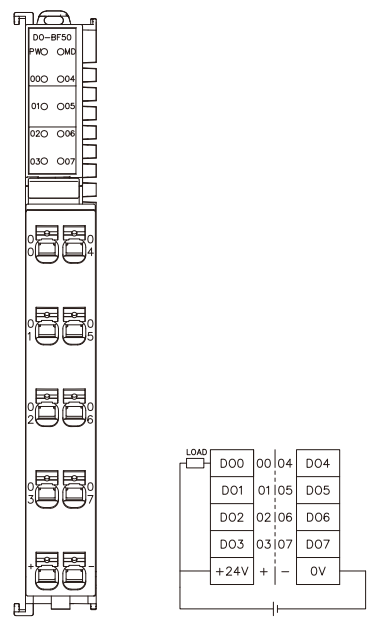
FX20 series IP20 modular I/O system - adapter

		
Ordering data		
Product model	FX20-GW-MT00	FX20-GW-MB00
Description	MODBUS/TCP adapte	MODBUS TCP/RTU adapte
System parameters		
Communication protocol	MODBUS/TCP	MODBUS TCP/RTU
Bus transmission by	Cat.5 cable	Cat.5 cable/2 or 3-core twisted pair shielded cable
Communication rate	100 Mbit/s	100 Mbps/115200 bps
Max. communication distance	100 m (100 BASE-TX)	100 m (TCP) /30 m (RS485) /10 m (RS232)
Address range	1-254	1-254
Electrical parameters		
Max. extended I/O modules	32	32
Max. input/output Bytes	512 byte input and 512 byte output	512 byte input and 512 byte output
Bus interface	2 x RJ45	1 x RJ45;1 x RS485/RS232
Working voltage	24 V DC ($\pm 20\%$)	24 V DC ($\pm 20\%$)
Static working current	200 mA	200 mA
Backplane power voltage	5 V DC	5 V DC
Backplane power current	Max. 3 A	Max. 3 A
Electrical isolation	500 V (power supply and bus)	500 V (power supply and bus)
Power protection	Overcurrent, reverse polarity, surge protection	Overcurrent, reverse polarity, surge protection
Diagnosis		
Power indication	LED	
Error indication	LED, communication message	
Communication status	LED, communication message	
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	230 g	
Module size (H x W x D)	79 mm x 57 mm x 110 mm	
Wiring diagram	FX20-GW-MT00   FX20-GW-MB00   	

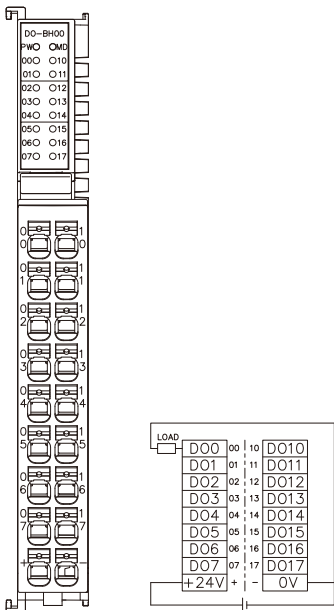
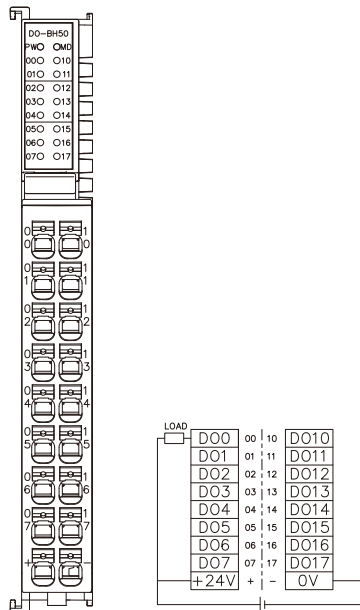
FX20 series IP20 modular I/O system - digital input module

			
Ordering data			
Product model	FX20-DI-BF60	FX20-DI-BH60	FX20-DI-BL60
Description	8-channel input PNP/NPN universal module	16-channel input PNP/NPN universal module	32-channel input PNP/NPN universal module
Electrical parameters			
Input channel	8	16	32
Input type	Universal for PNP/NPN	Universal for PNP/NPN	Universal for PNP/NPN
Input signal '0'	DC 0 ... 5 V	DC 0 ... 5 V	DC 0 ... 5 V
Input signal '1'	DC 18 ... 30 V	DC 18 ... 30 V	DC 18 ... 30 V
Input current	typ. 4 mA	typ. 4 mA	typ. 4 mA
Input filtering delay	0 ms, 1 ms, 3 ms, 10 ms	0 ms, 1 ms, 3 ms, 10 ms	0 ms, 1 ms, 3 ms, 10 ms
Current consumption (5 V)	60 mA	60 mA	60 mA
Process data length	1 byte	2 bytes	4 bytes
General data			
Protection grade	IP20		
Installation	Standard 35 mm DIN rail installation, for indoor use only		
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C		
Working altitude	0 ... 2000 m		
Relative humidity	15%-95%, non condensation		
Module weight	63 g	63 g	128 g
Module size (H × W × D)	79 mm × 15 mm × 110 mm	79 mm × 15 mm × 110 mm	79 mm × 28 mm × 110 mm
Wiring diagram			
FX20-DI-BF60	FX20-DI-BH60	FX20-DI-BL60	
			

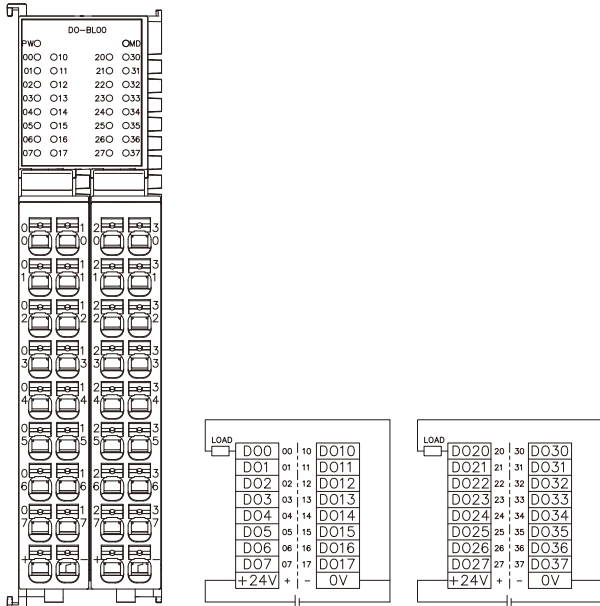
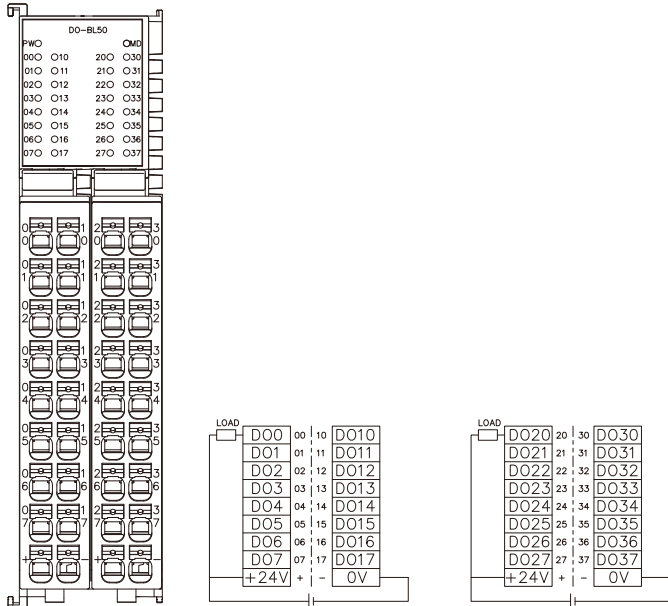
FX20 series IP20 modular I/O system - digital output module

		
Ordering data		
Product model	FX20-DO-BF00	FX20-DO-BF50
Description	8-channel output module for PNP	8-channel output module for NPN
Electrical parameters		
Output channel	8	8
Output type	PNP	NPN
Output current	Max. 0.5 A per channel, total 4 A	Max. 0.5 A per channel, total 4 A
Load type	Resistive load/inductive load/lamp load	Resistive load/inductive load/lamp load
Switching frequency	Max 1 KHz/Max 1 Hz/Max 10 Hz	Max 1 KHz/Max 1 Hz/Max 10 Hz
Current consumption (5 V)	60 mA	60 mA
Process data length	1 byte	1 byte
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	66 g	
Module size (H × W × D)	79 mm × 15 mm × 110 mm	
Wiring diagram		
		

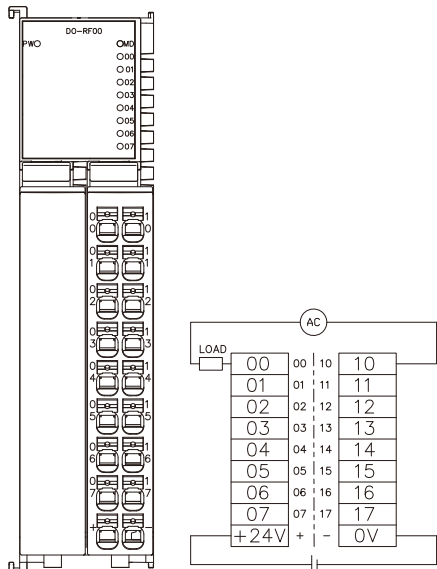
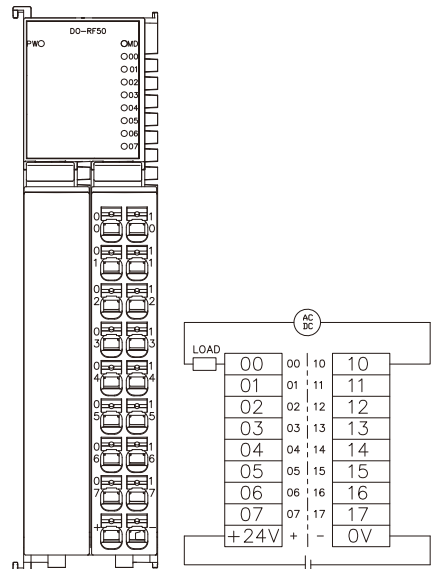
FX20 series IP20 modular I/O system - digital output module

		
Ordering data		
Product model	FX20-DO-BH00	FX20-DO-BH50
Description	16-channel output module for PNP	16-channel output module for NPN
Electrical parameters		
Output channel	16	16
Output type	PNP	NPN
Output current	Max. 0.5 A per channel, total 4 A	Max. 0.5 A per channel, total 4 A
Load type	Resistive load/inductive load/lamp load	Resistive load/inductive load/lamp load
Switching frequency	Max 1 KHz/Max 1 Hz/Max 10 Hz	Max 1 KHz/Max 1 Hz/Max 10 Hz
Current consumption (5 V)	65 mA	65 mA
Process data length	2 bytes	2 bytes
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	66 g	
Module size (H × W × D)	79 mm × 15 mm × 110 mm	
Wiring diagram		
		

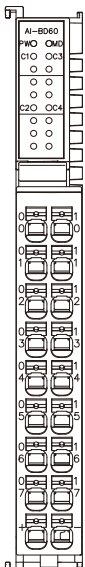
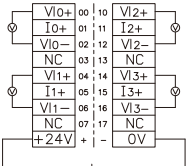
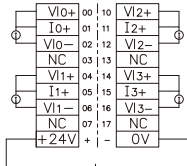
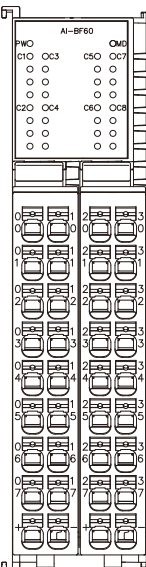
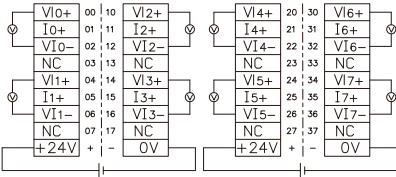
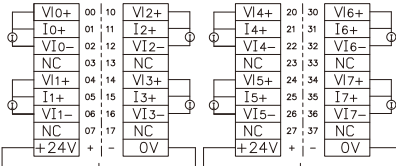
FX20 series IP20 modular I/O system - digital output module

		
Ordering data		
Product model	FX20-DO-BL00	FX20-DO-BL50
Description	32-channel output module for PNP	32-channel output module for NPN
Electrical parameters		
Output channel	32	32
Output type	PNP	NPN
Output current per channel	Max. 0.5 A per channel, total 4 A	Max. 0.5 A per channel, total 4 A
Load type	Resistive load/inductive load/lamp load	Resistive load/inductive load/lamp load
Switching frequency	Max 1 KHz/Max 1 Hz/Max 10 Hz	Max 1 KHz/Max 1 Hz/Max 10 Hz
Current consumption (5 V)	65 mA	65 mA
Process data length	4 bytes	4 bytes
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	128 g	
Module size (H × W × D)	79 mm × 28 mm × 110 mm	
Wiring diagram		
PNP  NPN 		

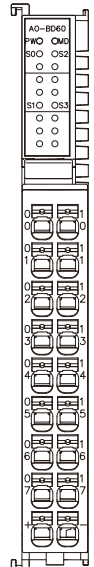
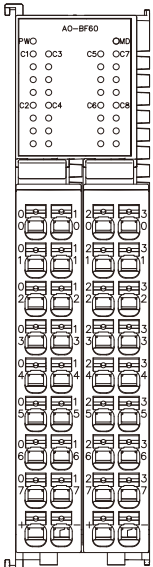
FX20 series IP20 modular I/O system - relay output module

		
Ordering data		
Product model	FX20-DO-RF00	FX20-DO-RF50
Description	8DO, SSR, floating ground, AC 230 V, 0.5 A	8DO, Relay, floating ground, AC 250 V/DC 30 V, 2 A
Electrical parameters		
Output channel	8	8
Output Type	AC solid state relay	Mechanical relay
Output voltage	220 V AC	250 V AC/30 V DC
Output load (Resistive load)	500 mA/point, 4 A/model	2 A/point, 8 A/model
Output load (Inductive load)	—	1 A/point, 4 A/model
Output load (Lamp load)	250 mA/point, 2 A/model	30 W/point, 120 W/model
Relay response time	3 ... 10 ms	about 15 ms
Switching frequency	Max. 0.5 Hz (Resistive load)	≤6 times/minute
Electrical life	20 million times	100,000 times
Current consumption (5 V)	80 mA	65 mA
Process data length	1 byte	1 byte
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	128 g	
Module size (H × W × D)	79 × 28 × 110 mm	
Wiring diagram	 	

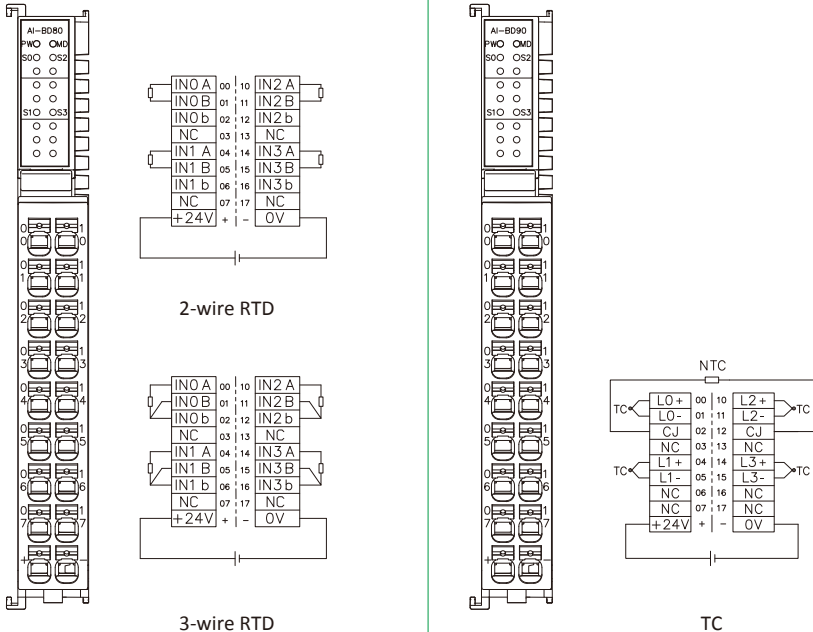
FX20 series IP20 Modular I/O system - analog input/output module

		
Ordering data		
Product model	FX20-AI-BD60	FX20-AI-BF60
Description	4-channel input module for voltage and current types	8-channel input module for voltage and current types
Electrical parameters		
Input channel	4	8
Input Type	0 ... 10 V, +/-10 V, 1 ... 5 V, 0/4 ... 20 mA, +/-20 mA	0 ... 10 V, +/-10 V, 1 ... 5 V, 0/4 ... 20 mA, +/-20 mA
Input impedance	Current type: 250 Ω; Voltage type: 1 MΩ	Current type: 250 Ω; Voltage type: 1 MΩ
Input resolution	16 Bits	16 Bits
Conversion time	3 ms	3 ms
Measurement accuracy	± 0.2%	± 0.2%
Output channel	/	/
Output type	/	/
Output resolution	/	/
Conversion time	/	/
Output accuracy	/	/
Process data length	8 bytes	16 bytes
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0-2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	70 g	130 g
Module size (H × W × D)	79 mm × 15 mm × 110 mm	79 mm × 28 mm × 110 mm
Wiring diagram	FX20-AI-BD60  Voltage signal input  Current signal input  FX20-AI-BF60  Voltage signal input  Current signal input 	

FX20 series IP20 Modular I/O system - analog input/output module

 		
Ordering data		
Product model	FX20-AO-BD60	FX20-AO-BF60
Description	4-channel output module for voltage and current types	8-channel output module for voltage and current types
Electrical parameters		
Input channel	/	/
Input Type	/	/
Input impedance	/	/
Input resolution	/	/
Conversion time	/	/
Measurement accuracy	/	/
Output channel	4	8
Output type	1 ... 5 V, 0 ... 10 V, ± 10 V, 0/4 ... 20 mA	1 ... 5 V, 0 ... 10 V, ± 10 V, 0/4 ... 20 mA
Output resolution	16 Bits	16 Bits
Conversion time	2 ms	2 ms
Output accuracy	$\pm 0.2\%$	$\pm 0.2\%$
Process data length	8 bytes	16 bytes
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0-2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	70 g	130 g
Module size (H x W x D)	79 mm x 15 mm x 110 mm	79 mm x 28 mm x 110 mm
Wiring diagram	FX20-AO-BD60  Voltage signal output Current signal output FX20-AO-BF60  Voltage signal output Current signal output	

FX20 series IP20 modular I/O system - temperature measuring module

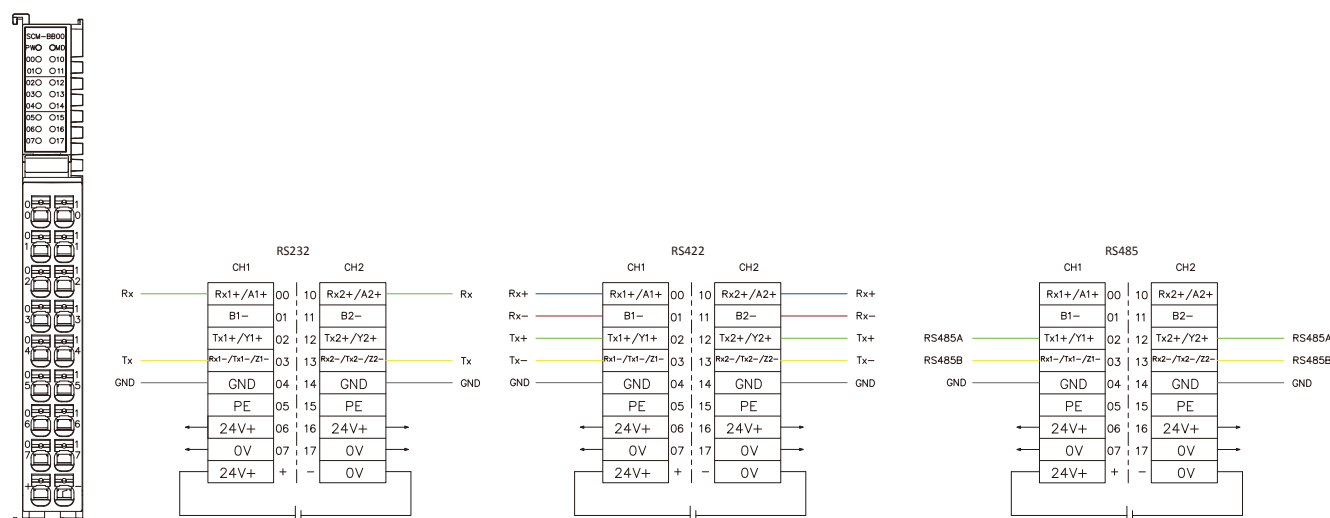
		
Ordering data		
Product model	FX20-AI-BD80	FX20-AI-BD90
Description	4-channel, RTD measurement module	4-channel, TC measurement module
Electrical parameters		
Input channel	4	4
Input type	Thermal resistance, (2-wire, 3-wire)	Thermocouple: J, K, T, N, E type
Resolution	16 Bits	16 Bits
Sensitivity	0.1 °C	0.1 °C
Measurement accuracy	Within 2 °C	Within 2 °C
Process data length	8 bytes	8 bytes
General data		
Protection grade	IP20	
Installation	Standard 35 mm DIN rail installation, for indoor use only	
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C	
Working altitude	0 ... 2000 m	
Relative humidity	15%-95%, non condensation	
Module weight	70 g	
Module size (H × W × D)	79 mm × 15 mm × 110 mm	
Wiring diagram		

FX20 series IP20 modular I/O system - serial communication module



Ordering data	
Product model	FX20-SCM-BB00
Description	Dual channel, compatible with RS485 / RS422 / RS232
Electrical parameters	
Input channel	2
Interface type	Terminal type
Communication methods	RS485: 2-wire, half duplex; RS422: 4-wire, full duplex; RS232: 2-wire, half duplex;
Working mode	MODBUS master station, slave station, free transparent transmission
Communication protocol	MODBUS RTU, MODBUS ASCII, free port
Baud rate	Default 115200 bps, 300 bps-921600 bps can be set
Data bits	7-bit or 8-bit
Stop bit	1 or 2 stop bits can be set
Check bit	No checksum, odd or even checksum can be set
Timeout time	Default 100ms, 2-65535 ms can be set
Slave station number	1-247
Communication distance	RS485/RS422: max. 30 m; RS232: max. 10 m
Process data length	Received data: 21 bytes, sent data: 15 bytes
General data	
Protection level	IP20
Installation method	Standard 35 mm DIN rail installation, for indoor use only
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C
Working altitude	0 ... 2000 m
Relative humidity	15%-95%, non condensation
Module weight	70 g
Module size (H x W x D)	79 mm x 15 mm x 110 mm

Wiring diagram

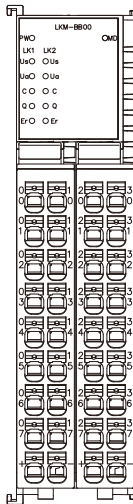


FX20 series IP20 modular I/O system - high speed counting module



Ordering data	
Product model	FX20-CNT-BB00
Description	Dual channel ABZ three-phase high-speed counting module, 24 V
Electrical parameters	
Input channel	2
Interface type	Terminal type
Encoder power supply terminal	2 x 24 VDC
Encoder input	ABZ three-phase, 24 V
Input type	Source type, leakage type, and push-pull type can be set
Counting mode	B pulse mode, B pulse+A direction mode, A+B mode, A+B+Z mode
Counting frequency	Max. 500 kHz
Encoder frequency doubling mode	x1/x2/x4
Count data length	32 bits
Counting range	-2147483648 ... 2147483647
Count comparison function	Support
Forward and reverse counting	Support
Counting alarm function	Support
Filtering function	0-10ms can be set
IO channel	Input: 2 PNP/NPN, output: 2 PNP
General data	
Protection level	IP20
Installation method	Standard 35 mm DIN rail installation, for indoor use only
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C
Working altitude	0 ... 2000 m
Relative humidity	15%-95%, non condensation
Module weight	70 g
Module size (H x W x D)	79 mm x 15 mm x 110 mm
Wiring diagram	The wiring diagram shows the terminal block layout for the FX20-CNT-BB00 module. It includes connections for two encoders (Encoder1 and Encoder2) and two digital I/O channels (Digital input1, Digital output1, Digital input2, Digital output2). The terminals are labeled as follows: - Encoder1 input A: A1 - Encoder1 input B: B1 - Encoder1 input Z: Z1 - Encoder1 24VDC+: 24V - Encoder1 GND: GND - Encoder2 input A: A2 - Encoder2 input B: B2 - Encoder2 input Z: Z2 - Encoder2 24VDC+: 24V - Encoder2 GND: GND - Digital input1: DI1 - Digital output1: DO1 - Digital input2: DI2 - Digital output2: DO2 The diagram also shows the power supply connections for the digital I/O channels, including a +24V supply and a 0V ground connection.

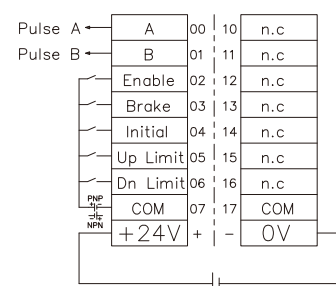
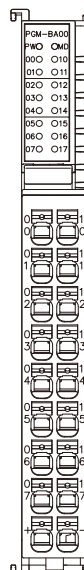
FX20 series IP20 modular I/O system - IO Link master station module

					
Ordering data					
Product model		FX20-LKM-BB00		FX20-LKM-BD00	
Description		2-channel IO-Link master, ClassA/ClassB, 2*32 bytes		4-channel IO-Link master, ClassA/ClassB, 4*8 bytes	
Electrical parameters					
Working voltage		24 V DC			
System power supply U_s current		4 A			
Auxiliary power supply U_a current		4 A			
IO Link Channel Count		2		4	
IO Link type		IO-Link master ClassA/ClassB			
IO Link version		IO-Link V 1.1.2			
IO Link communication speed		COM1 (4.8 kbps), COM2 (38.4 kbps), COM3 (230.4 kbps)			
Process data length		32 bytes per channel		8 bytes per channel	
Input channel		Max. 2		Max. 4	
Input power supply current		Pin1: 200 mA per channel			
Input signal type		PNPN type sensors, travel switches, dry contacts, etc. (SIO mode)			
Input filtering delay		1.6 ms			
Number of output channels		Max. 2		Max. 4	
Output current		Pin2: max. 2 A; Pin4: max. 100 mA			
Type of output		Indicator lights, micro solenoid valves, etc. (SIO mode)			
General data					
Protection level		IP20			
Installation method		Standard 35 mm DIN rail installation, for indoor use only			
Temperature range		Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C			
Working altitude		0 ... 2000 m			
Relative humidity		15%-95%, non condensation			
Module weight		128 g			
Module size (H x W x D)		79 × 28 × 110 mm			
Wiring diagram					
 FX20-LKM-BB00 Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → CQ1 01 11 Sys. 0V → L- 02 12 P24 03 13 N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class A Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class B Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - FX20-LKM-BD00 module" data-bbox="396 733 494 1000"/> FX20-LKM-BD00 Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → CQ1 01 11 Sys. 0V → L- 02 12 P24 03 13 N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class A Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class B Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - FX20-LKM-BD00 module" data-bbox="500 733 1000 1000"/> FX20-LKM-BD00 Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → CQ1 01 11 Sys. 0V → L- 02 12 P24 03 13 N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class A Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- - IO-Link Class B Sys. 24V+ → L1+ 00 10 IO-Link1/DIO1 → L- 02 12 Sys. 0V → L- 02 12 Aux. 24V+ → P24 03 13 Aux. 0V → N24 04 14 n.c 05 15 n.c 06 16 n.c 07 17 Ua+ + - Ua- -					

FX20 series IP20 modular I/O system - pulse output module



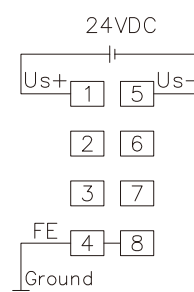
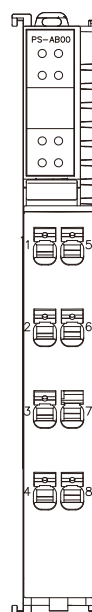
Ordering data	
Product model	FX20-PGM-BA00
Description	Single channel pulse output module, 24 V
Electrical parameters	
Supply voltage	24 V DC (±20%)
Output channel	1
Interface type	Terminal
Supply terminal	1 × 24 V DC
Output frequency range	1 ... 200 kHz
Pulse mode	Single pulse (pulse + direction), double pulse (CW / CCW)
Input channel	4-channel, PNP/NPN
Input channel function	Brake, origin switch, upper limit, lower limit
Process data length	Input: 12 bytes; output: 12 bytes
Configure channel-level parameters	Support
Return-to-zero mode	Support
Force on the brakes	Support
General data	
Protection grade	IP20
Installation	Standard 35 mm DIN rail installation, for indoor use only
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C
Working altitude	0 ... 2000 m
Relative humidity	15%-95%, non condensation
Module weight	70 g
Module size (H × W × D)	79 × 15 × 110 mm
Wiring diagram	



FX20 series IP20 modular I/O system - auxiliary power module



Ordering data	
Product model	FX20-PS-AB00
Description	Power auxiliary module, 5 V
Electrical parameters	
Input voltage	24 V DC
Input voltage range	DC 20.4 V-DC 28.8 V
Output voltage	5 V
Output current	Max 3 A
Power protection	Over current and reverse polarity protection
Efficiency	95 %
General data	
Protection grade	IP20
Installation	Standard 35 mm DIN rail installation, for indoor use only
Temperature range	Working temperature: -5 ... +60 °C, storage temperature: -25 ... +70 °C
Working altitude	0 ... 2000 m
Relative humidity	15%-95%, non condensation
Module weight	66 g
Module size (H × W × D)	79 mm × 15 mm × 110 mm
Wiring diagram	





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