





PFXSP5B10 + PFXZCDAEXP1

Standard product information	Specification
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Standard product information	
Family	Data Collection Devices
Series	Multi-Converter
Model	PFXSP5B10 + PFXZCDAEXP1

Specification													
Specifications	<h2 style="text-align: center;">Electrical Specifications</h2> <table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Model</th> <th style="text-align: center;">SP5000 (Power Box)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Model No. (Base Module)</td> <td style="text-align: center;">PFXSP5B10</td> </tr> <tr> <td style="text-align: center;">Model No. (Adapter)</td> <td style="text-align: center;">PFXZCDAEXP1</td> </tr> <tr> <td style="text-align: center;">Rated input voltage</td> <td style="text-align: center;">12 to 24Vdc</td> </tr> <tr> <td style="text-align: center;">Input voltage limits</td> <td style="text-align: center;">10.8 to 28.8Vdc</td> </tr> <tr> <td style="text-align: center;">Voltage drop</td> <td style="text-align: center;">12Vdc: 1.25ms or less 24Vdc: 5ms or less</td> </tr> </tbody> </table>	Model	SP5000 (Power Box)	Model No. (Base Module)	PFXSP5B10	Model No. (Adapter)	PFXZCDAEXP1	Rated input voltage	12 to 24Vdc	Input voltage limits	10.8 to 28.8Vdc	Voltage drop	12Vdc: 1.25ms or less 24Vdc: 5ms or less
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consumption	Max (adapter only)	2.0W or less
	In-rush current	30A or less
Voltage endurance	1,000 Vac, 20 mA for 1 minute (between charging and FG terminals)	
Insulation resistance	500 Vdc, 10 MΩ or more (between charging and FG terminals)	

Environmental Specifications

Model	SP5000 (Power Box)
Model No. (Base Module)	PFXSP5B10
Model No. (Adapter)	PFXZCDAEXP1
Surrounding air temperature	0 to 60 °C (32 to 140 °F) (For a floor installation, 0 to 55 °C [32 to 131 °F])
Storage temperature	-20 to 60°C
Surrounding air and storage humidity	10 to 90% RH (non-condensing, wet bulb temperature 39 °C [102.2 °F] or less)
Dust	0.1 mg/m ³ (10 ⁻⁷ oz/ft ³) or less (non-conductive levels)
Pollution degree	For use in Pollution Degree 2 environment
Corrosive gases	Free of corrosive gases
Atmospheric pressure (Operating altitude)	800 to 1,114 hpa (2,000 m [6,561 ft] or lower)
Vibration resistance	IEC/EN 61131-2 compliant 5 to 9 Hz Single amplitude 3.5 mm (0.14 in) 9 to 150 Hz Fixed acceleration: 9.8 m/s ² X, Y, Z directions for 10 cycles (approximately 100 minutes)
Shock resistance	IEC/EN 61131-2 compliant 147 m/s ² , X, Y, Z directions for 3 times



Electrostatic discharge immunity

Contact discharge method: 6 kV (IEC/EN 61000-4-2 Level 3)

Memory

Model	SP5000 (Power Box)
Model No. (Base Module)	PFXSP5B10
Model No. (Adapter)	PFXZCDADEXP1
Application Memory	<p>When using GP-Pro EX: Media: SD Card Screen Area ^{*1}: 64MB User Font Area: 8MB Logic Program Area: 132KB (Equivalent to 15,000 steps) Free Space: None</p> <p>Removable System: Yes</p>
Backup Memory	<p>When using GP-Pro EX: Screen Area: NVRAM 320KB Variable Area: NVRAM 64KB</p> <p>Battery: None ^{*2}</p>
Control Memory	64KB

^{*1} Use the screen area when the user font area's capacity is exceeded - for example, when an image font or a picture font is used.

^{*2} SP5000 Series can retain NVRAM (backup memory) and RTC (clock data) without any batteries. But, when no power is supplied for 100 days or more, it's necessary to additionally mount this option item to retain RTC (clock data).

Interface Specifications

Model	SP5000 (Power Box)
Model No. (Base Module)	PFXSP5B10
Model No. (Adapter)	PFXZCDADEXP1



	Data Transmission Speed: 2,400 (1,200) to 115,200 bps Connector: D-Sub9 (plug)
Serial (COM2)	RS-232C / 422 / 485 Data Length: 7 or 8 bits Stop Bit: 1 or 2 bits Parity: None, Even or Odd Data Transmission Speed: 2,400 (1,200) to 115,200 bps, 187,500bps (MPI) Connector: D-Sub9 (plug)
USB (Type A) *3	Conforms to USB 2.0 (Type A) x 2 Power supply voltage: 5 Vdc ±5 % Maximum Output Current: 500 mA/port Communication distance: 5 m [16.4 ft.]
USB (mini B)	Conforms to USB 2.0 (mini-B) x 1, Communication Distance: 5 m [16.4 ft] or less
Ethernet	IEEE802.3i / IEEE802.3u / IEEE802.3ab 10BASE-T / 100BASE-TX / 1000BASE-T Connector: Modular jack (RJ-45) x 2
Ethernet (Adapter side)	IEEE802.3i / IEEE802.3u 10BASE-T/100BASE-TX Connector: Modular jack (RJ-45) x 1 *4
SD Card	SD Card Slot (System) x 1 SD Card Slot (Storage) x 1
CFast Card	-
Video	-
Sound Input	-
Sound Output	Speaker Output: 300mW or more (Rated Load: 8Ω, Frequency: 1kHz) LINE Output: 1.4Vp-p (Rated load: 10kΩ) Connector: 2-piece terminal block (AUX) x 1
AUX Output	Alarm Output or Buzzer Output x 1 Rated Voltage: 24 Vdc, Rated Current: 50 mA or less Connector: 2-piece terminal block x 1

*3 When using the Display Module with the Power Box, you can connect only one of each type of USB device, such as one USB flash drive, one transfer cable, or one barcode reader. If you connect multiple devices that are the same type, only the first device will work.

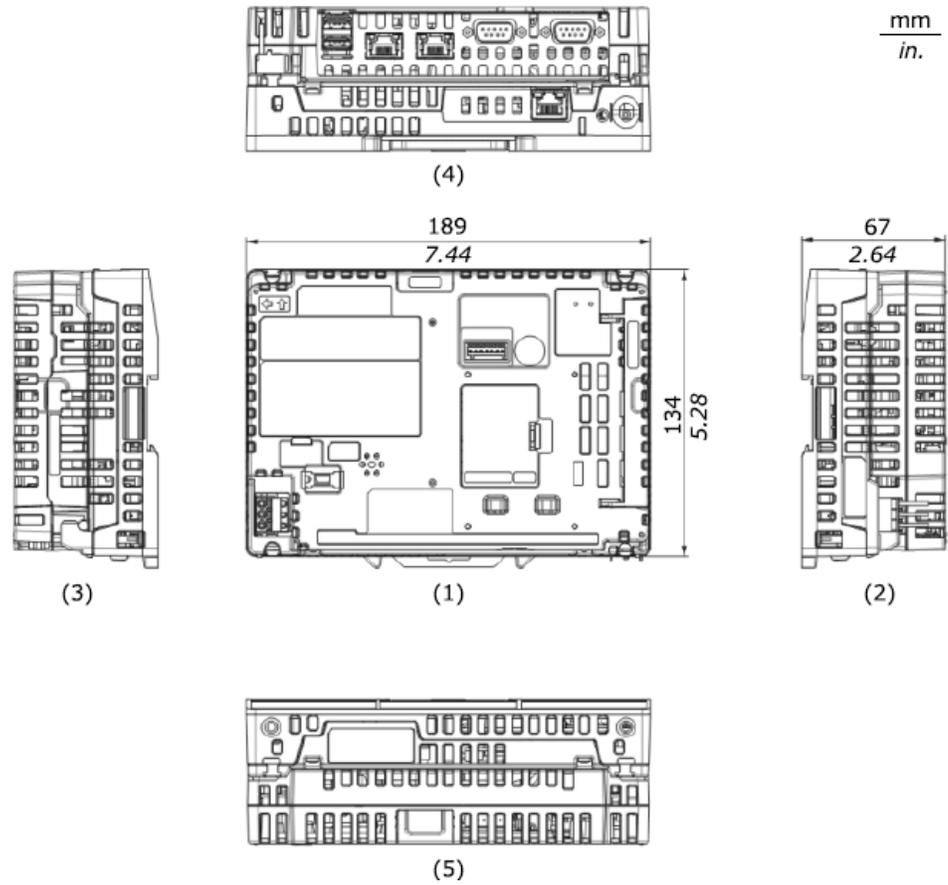
*4 The Ethernet interface cannot be used with SP-5B10.



Model No. (Base Module)	PFXSP5B10
Model No. (Adapter)	PFXZCDADEXP1
Grounding	Functional grounding: Grounding resistance of 100 Ω, 2 mm ² (AWG 14) or thicker wire, or your country's applicable standard (same for FG and SG terminals).
Cooling method	Natural air circulation
External dimensions	W189 x H134 x D69mm (7.44 x 5.28 x 2.72 in)
Weight	1.65kg (3.64 lb) or less



MAIN BOX MODULE



- 1 Front
- 2 Left
- 3 Right
- 4 Top
- 5 Bottom

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