

DVP-SX

Instruction Sheet 安裝說明 安装说明

Multi-Functional, Built-in Analog I/O, Multiple Instructions

多功能內建類比I/O豐富指令集
Multi-functional built-in Analog I/O, rich instructions

多功能內建類比I/O豐富指令集



501166807-DX10

- *1: A+D indicator: If the indicator blinks, it means AD/DA conversion is being executed.
- *2: ALARM indicator: If the indicator blinks, it means that the AD/DA conversion value exceeds the range which can cause an alarm.
- *3: Installing a battery: Users have to replace the battery in the PLC in three minutes. Please refer to section 3.2 for more information.

● Electrical Specifications

● Electrical Specifications

Model	DVP10SX11R/T	DVP08SM11N	DVP08SN11R/T	DVP08SP11R/T	DVP16SP11R/T
Power supply voltage	DC 24V/DC (-15% ~ -20% with DC input reverse polarity protection), Expansion Unit supplied by the CPU	-	-	-	-
Fuse	2A/ 250VAC	-	-	-	-
Power Consumption	5W	1W	1.5W	1.5W	2W
Insulation Resistance	> 5 MΩ at 500 VDC (Between all inputs / outputs and earth)	-	-	-	-
Noise Immunity	EFT: Power Line: 2kV, Digital I/O: 1kV; Analog & Communication I/O: 250V Damped-Oscillatory Wave: Power Line: 1kV, Digital I/O: 1kV RS: 26MHz ~ 1GHz / 10V/m	-	-	-	-
Grounding	The length of ground wires cannot be smaller than the wire diameter of terminals L and N (All DVP units must be grounded directly to the ground pole).	-	-	-	-
Environment	Operation: 0°C ~ 55°C (temperature), 5 ~ 95% (humidity). Pollution degree 2; Storage: -25°C ~ 70°C (temperature), 5 ~ 95% (humidity); DA output operation: 0°C ~ 50°C (temperature)	-	-	-	-
Vibration / Shock Resistance	Standard: IEC61131-2, IEC 68-2-6 (TEST Fc)/IEC61131-2 & IEC 68-2-27 (TEST Ea)	-	-	-	-
Weight (approx.) (g)	138 / 133	64	88 / 88	90 / 70	96 / 76
Approvals		-	-	-	-

Electrical Specification of Input Point

Input Type	DC (SINK or SOURCE)	Output Type	DC (Signal IN)	Electrical Specification of Output Point
Input Current	24VDC 5mA	Current Specification	1.5A/0.5mA	0.341A point @ 40°C. When the output of Y0 and Y1 is high-speed pulse, Y0 and Y1 = 30mA
Active Level	Off → On, X0,X1 above 18.5VDC On → Off, X0,X1 above 18.5VDC	Voltage Specification	Below 250VAC, 30VDC	-
Responding Time	About 10ms (An adjustment range of 0 ~ 20ms could be selected through D1020 and D1021)	Maximum Loading	75VA (Inductive) 90W (Resistive)	When the output of Y0 and Y1 is high-speed pulse, Y0 and Y1 = 0.9W (Y0 = 32kHz, Y1 = 10kHz)
		Response Time	About 10ms	Off → On 20us On → Off 30us
				Y0 and Y1 are specified points for high-speed pulse

■ Model Name & I/O Configuration

Model	Power	Point	Input Type	Output
DVP10SX11R	+24VDC -15%	4 2	DI (AI) Sink or Source	-20 ~ 20mA (range:-1,000 ~ +1,000) 2 2 Relay (range:-2,000 ~ +2,000)
DVP10SX11T	+24VDC -15%	4 2	DC24V/5mA Sink or Source	-10 ~ +10V (range:-2,000 ~ +2,000) 2 2 Resistor (range:-2,000 ~ +2,000)

● Installation & Wiring

3.1 PLC Mounting Arrangements and Wiring Notes



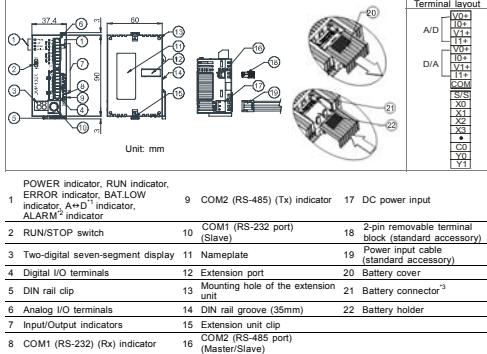
⚠ Warning

- EN DVP-SX is an OPEN-TYPE device. It should be installed in a control cabinet free of airborne dust, humidity, electric shock and vibration. To prevent non-maintenance staff from operating DVP-SX, or to prevent an accident from damaging DVP-SX, the control cabinet in which DVP-SX is installed should be equipped with a safeguard. For example, the control cabinet in which DVP-SX is installed should be unlocked with a special tool and key. EN DO NOT connect AC power to any of I/O terminals, otherwise serious damage may occur. Please check all wiring again before DVP-SX is powered up. After DVP-SX is disconnected, Do NOT touch any terminals in a minute. Make sure that the ground terminal on DVP-SX is correctly grounded in order to prevent electromagnetic interference.
- FR DVP-SX est un module OUVERT. Il doit être installé dans une enceinte protéctrice (boîtier, armoire, etc.) sans dépose de poussière, d'humidité et hors d'atteinte des chocs électriques. La protection doit éviter que les personnes non autorisées à l'ouvrir puissent accéder à l'appareil (par exemple, une clé ou un outil dans les lieux nécessaires pour ouvrir la protection).
- FR NE pas appliquer la tension sur les bornes d'entrées/Sorties, l'appareil DVP-SX pourra être endommagé. Merci de vérifier encore une fois le câblage avant la mise sous tension du DVP-SX. Lors de la déconnection de l'appareil, ne pas toucher les connecteurs dans la minute suivante. Vérifier que la terre est bien reliée au connecteur de terre afin d'éviter toute interférence électrique.

1 Introduction

Thank you for choosing the Delta DVP series PLC. The DVP-SX series PLC is a 10-point (4DI+2DO+2AI+2AO) mixed PLC. It has four digital input points, two digital output points, two 12-bit analog (voltage/current) input channels, and two 12-bit analog (voltage/current) output channels. Besides, the DVP-SX series PLC has bipolar voltage/current output capacity. It has a built-in two-digit seven-segment display corresponding to internal special registers. The two-digit seven-segment display is used to display a station address or a user-defined code. If an error occurs, the display will show "Er" and "01" or "02" alternately. ("01" indicates a syntax error, and "02" indicates a PLC program loss).

■ Product Profile and Outline



Installation of the DIN Rail:

The DVP-PLC can be easily mounted to a cabinet by using the DIN rail. It is 5mm high with a depth of 7.5mm. When mounting the PLC on the DIN rail, be sure to use the end bracket to stop any side-to-side motion of the PLC. Thus, to reduce the chance of the wire being pinched, at the bottom of the PLC as a small retaining clip, see the PLC's DIN rail rail, place it onto the rail and gently push up the clip. To remove it, pull down the retaining clip and gently pull the PLC away from the DIN rail.

Wiring:



1. Please use 22-16AWG (1.5mm) wiring (either single or multiple core) for power wiring materials. The wiring specification of the terminals is as shown below the left. PLC terminal connection should be limited to between 1.65 kg/cm (1.7 mm). Use 60/75% copper conductor only.
2. I/O signal wires or power supply should not run through the same multi-wire cable or conduit.

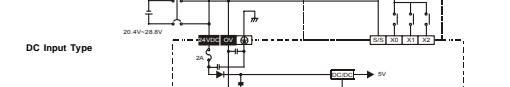
3.2 Wiring Notes

● Power Input Wiring

DVP-SX series input power supply is DC input. Please take a note of listed items when operating DVP-SX Series.

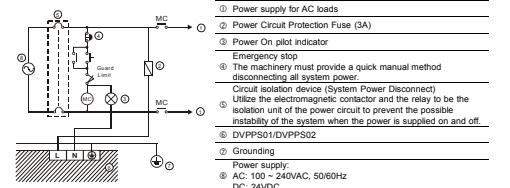
1. Please make sure the power is in terminals 24VDC and Y0 power range is 20~VDC ~ 28.8VDC. When voltage is lower than 20VDC, PLC will stop operating, all outputs will be Off. Once the power is restored, the PLC will return to operate automatically. (There are latched auxiliary relays and registers inside of the PLC, please be aware when programming.)
2. If the power-off time is less than 10ms, the PLC still operates unaffectedly. If the power-off time is too long or the power-voltage drops, the PLC will stop operating, and all the outputs will be Off. Once the power is restored, the PLC will return to operate automatically. (There are latched auxiliary relays and registers inside of the PLC, please be aware when programming.)

■ Product Profile and Outline



■ Safety Wiring

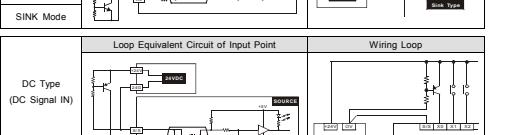
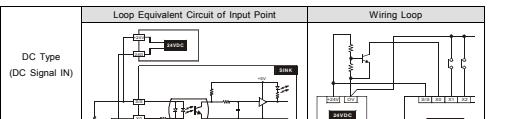
Since the PLC is in control of numerous devices, motion of either one device could affect the motion of other devices, therefore the breakdown of either one device would consequently be detrimental to the whole auto control system, and danger will thus be resulted. Please use the recommended wiring below for the power input:



■ Input Point Wiring

The input signal of the input point is the DC power DC input. There are two modes of DC type wiring: SINK and SOURCE, defined as follows:

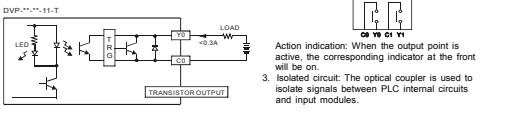
Sink = Current flows into the common terminal S/S. Source = Current flows out of common terminal S/S.



■ Output Point Wiring

1. There are two kinds of DVP-SX Series PLC output modules: Relay and Transistor. For relevant electrical specification, please refer to the function specification.

2. Be careful the connection of the common terminal when writing programs. For example, when writing DVP10SX11R, output terminal Y0 uses one common terminal CO. Y1 uses C1, as shown below:



Action indication: When the output point is active, the corresponding indicator at the front will be on.

3. Isolation circuit: The optical coupler is used to isolate signals between PLC internal circuits and input modules.

■ Analog Input/Output Point Wiring

Note 1: Please isolate analog input and other power wirings.

Note 2: If input signal is in current, please short between V+ and I+ terminals.

Note 3: If the noise interference from loaded input wiring terminal is significant, please connect a capacitor with 0.1 ~ 0.47μF 25V for noise filtering.

Note 4: Please isolate analog output and other power wirings.

Note 5: If the noise interference from loaded input wiring terminal is significant, please connect a capacitor with 0.1 ~ 0.47μF 25V for noise filtering.

Note 6: Please connect power module terminal and analog output module terminal to system earth point and make system earth point be grounded or connects to machine cover.

Warning: DO NOT wire to the No function terminal ●

■ Battery Lifespan

The lifespan of the battery attached to the product is about 2~4 years. (It depends on environmental factors.) Use the battery change regularly before the BATLOW indicator is on, if the battery is changed when the product is disconnected, please put a new battery in the product in three minutes so that the internal data can be retained.

Hardware version 2.20A1 (and below): If there is not sufficient electricity in the battery, and the product has been disconnected for more than three minutes, the program, the data in the latching devices, and the RTC time will disappear.

Hardware version 3.00A2 (and above): If there is not sufficient electricity in the battery, and the product has been disconnected for more than three minutes, the program and the data in the latching devices have been moved to the flash ROM, and only the RTC time will disappear.

■ Accuracy of the RTC (Second/Month)

Temperature (°C/F)	0/32	25/77	55/131
Maximum error (Second)	-117	52	-132

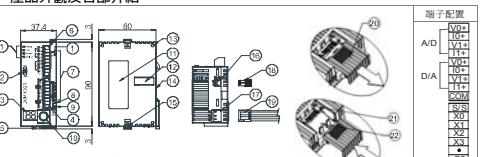
⚠ 注意事項

- ✓ 本使用說明書僅提供電氣規格、功能規格、安裝配線、故障排除及開通與異常部份說明。其它詳細之程式設計及指令參見SA/SC系列組合，詳盡說明請見PLC技術手冊【程式篇】，選購之周邊裝置詳盡說明請見該周邊機種手冊。
- ✓ 本公司為開放式 (OPEN TYPE) 設計，因此使用者在使用本機時，必須將其安置於具防塵、防潮及免於電擊/衝擊之外之外部機殼內。另必須具備保護地線（由：移動工具或輪座才可打開）防止非維護人員操作或意外衝擊本體，造成危機及損壞。請勿在上電前觸摸任何端子。
- ✓ 交流輸入電源不可接於輸入/出信號端，否則可能造成嚴重損壞。請在上電之前再次確認電源配線。本體之接地端子 必務正確的接地，可提高產品抗雜訊能力。

● 產品簡介

謝謝您採購台達DVP-SX機種，DVP-SX機種為10點(4DI+2DO+2AI+2AO)混合型主機，內建4點位址輸出，與2點數位輸出外，並具有2CH的12-bit類比(電壓/電流)輸入及2CH的12-bit類比(電壓/電流)輸出，同時均具雙極性電壓/電流輸出能力。另外，內建2位數的七段顯示模組，直接對應內部特殊暫存器，可適用於顯示或狀態或存儲器。請在上電之前再次確認電源配線。01表示文字檢查需重複，02表示程序遺失。

● 產品外觀及各部介紹



1 電源、運行/錯誤、電池低電壓、A+D+1、警報指示燈	9 COM2 (RS-485) 通訊發送(Tx) 指示燈	17 電源輸入
2 RUN/STOP 開關	10 COM1 (RS-232) 通訊(I/Slave)	18 2-pin 脫機式端子 (標準附件)
3 2位數七段顯示模組	11 緩解	19 電源輸入連接端子 (標準附件)
4 數位 I/O 端子	12 電機驅動連接	20 電池蓋
5 DIN 雜誌固定扣	13 電機固定扣	21 電池座連接線 ³
6 比比 I/O 端子	14 DIN 軌道 (35mm)	22 電池座
7 動力輸入/輸出端子	15 COM1 (RS-232) 通訊接收(Rx) 指示燈	8 COM1 (RS-232) 通訊接收(Master/Slave)

*1: A+D 指示燈：燈體閃爍時，表示正在執行AD/DA轉換。

*2: 警報指示燈：燈體閃爍時，表示AD/DA轉換超限值使用範圍。

*3: 電池安裝：更換電池時，請在3分鐘內完成，詳細說明請參考3.2 注意事項之電池壽命補充說明。

● 產品規格

■ 電氣規格

項目	機種	DVP10SX11R/T	DVP08SM11N	DVP08SN11R/T	DVP08SP11R/T	DVP16SP11R/T
電壓電容	主機: 24VDC (-15% ~ 20%) (具直流輸出, 電源保險絲保護, 搞壞: 由主機供應)	-	-	-	-	-
電池保險絲容量	2A/250VAC	-	-	-	-	-
消耗電力	5MD (以上所有輸出端子到地之間 500VDC)	-	-	-	-	-
絕緣阻抗	ESD: 5KV Air Discharge	-	-	-	-	-
雜訊免疫力	EFT: Power Line: 2kV, Digital I/O: 1kV; Analog & Communication I/O: 250V Damped-Oscillatory Wave: Power Line: 1kV, Digital I/O: 1kV RS: 26MHz ~ 1GHz / 10V/m	-	-	-	-	-
接地	接線端子之導線不得有小於電壓隔離 L/N 之總長 (多台 PLC 同時使用時, 請務必單點接地)	-	-	-	-	-
操作/儲存環境	操作: -25°C ~ 70°C (溫度) ; 5 ~ 95% (濕度) ; DA 輸出操作: 0°C ~ 50°C (溫度)	-	-	-	-	-
附註	國際標準準則: IEC61131-2, IEC608-2-6 (TEST Fc)/IEC61131-2 & IEC68-2-27 (TEST Ea)	-	-	-	-	-
重量 (kg, g)	138 / 133	64	88 / 88	90 / 70	96 / 76	-

● 輸入輸出端子規格

輸入	輸出		輸出端子規格	
	形式	繼電器-R	形式	繼電器-T
輸入電流	24VDC 5mA	1.5A/1 號 (5A/COM)	0.3A/1 號 @ 40°C	高速脈波輸出時: Y0 - Y1 50mA
動作位準	Off → On, X0 - X1 15.8VDC 以上 X2 - X3 15.6VDC 以上	250VAC, 30VDC 以下	30VDC	-
反響時間	約 10ms (由 D1020 及 D1021 可作 0 ~ 20ms 的調整)	9W/1點	高速脈波輸出時: Y0 - Y1 0.9W (Y0 : 50kHz, Y1 : 10kHz)	Y0 - Y1 輸出為 高速脈波輸出點
反應時間	約 10 ms	Off → On 20us On → Off 30us	Off → On 20us On → Off 30us	Y0 - Y1 輸出為 高速脈波輸出點

● 機種型號與 I/O 配置

機種	電源	輸入單元		輸出單元	
		點數	形式	點數	形式
DVP10SX11R	24VDC +20% -15%	2	DC24V/5mA Sink or Source	2	繼電器 繼電器
DVP10SX11T	24VDC -15%	2	DC24V/5mA Sink or Source	2	電品體 電品體

● 安裝及配線

3.1 盒内安装及配线

DIN 铁轨之安装方法：

适合 35mm DIN 铁轨，主机欲挂于铁轨时，先将 PLC 下方之固定塑料片嵌入，再将 PLC 山上，上方接线再往下即可。欲取下 PLC 时，PLC 底部之固定塑件，以起子插入凹槽，向上拉开即可。该固定机构塑件为保持型，当所有的固定塑件拉开后，再将 PLC 往上方取出，如右所示：

配线：

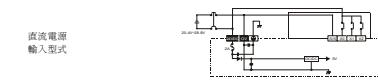
- 22-16AWG 1. 输出/输入端接线使用 22-16AWG (1.5mm) 单芯裸线或多芯线，端子规格如左所示：PLC 端子螺扭力为 1.95kg-cm (1.7 in-lbs) 只能使用 60/75°C 的铜线。
2. 在配线时请勿输入点信号线与输出点或电源等动力线置于同一线槽内。

3.2 注意事项

■ 电源端输入配线

DC 机种为直流电源输入，在使用上应注意下列事项：

1. 电源请接于 24VDC 及 0V 两端，电源范围为 20~28.8VDC，当电源电压低于 20.4VDC 时，PLC 会停止运行，输出全端 Off，ERROR LED 快速闪爍。
2. 当停机时间低于 10ms 时，PLC 不会影响电源运转，当停机时间长或电源电压下降将使 PLC 停止运转，输出全端 Off，ERROR LED 快速闪爍。
3. 在配线时请勿输入点信号线与输出点或电源等动力线置于同一线槽内。



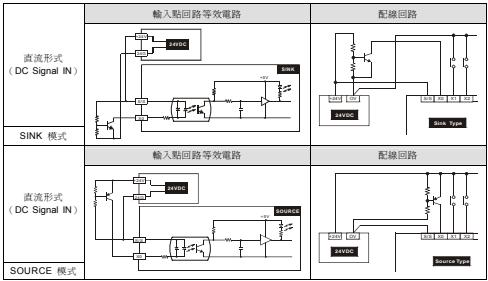
■ 安全配线回路

由於 PLC 控制许多装置，任一装置的動作可能都會影響其它裝置的動作，因此任一裝置的故障都可能會造成整個自動控制系统失控，甚至造成危險，所以在電源端輸入回路(DVPPS01/DVPPS02)建議配置如下的保護回路：

- ① 交流电源负载
- ② 电源回路保护用保险丝 (3A)
- ③ 电源指示燈
- ④ 紧急停止：為預防突發狀況發生，設置一緊急停止按鈕，可在狀況發生時，切斷系統電源。
- 系統回路隔離裝置：使用磁性接觸器、繼電器等開關作為系統電源回路隔離裝置，可防止斷電被供應時，造成系統的不穩定。
- ⑤ DVPPS01/DVPPS02 本體
- ⑥ 接地
- 電源供應：交流 (AC) : 100 ~ 240VAC, 50/60Hz；
直流 (DC) : 24VDC

■ 输入點之配線

輸入點之入力信號為直流電源 DC 輸入，DC 型式共有兩種模式接法：SINK 及 SOURCE，其定義如下：



- 輸出點之配線**
1. DVPS-S 系列 PLC 輸出模塊共有二種：繼電器及晶體管，其相關電氣規格請參考功能規格部份。
 2. 輸出端在實際配線時，應特別注意共用端的連接，以 DV10SX11R 為例，輸出端 YO 用一個 C0 共同端，另外 Y1 用 C1，如圖所示：

■ 類比輸入/輸出點之配線

- * A+D*、警報*指示灯：灯号闪烁时，表示正在执行 A/D 转换。
* RUN/STOP 开关：10 COM1 (RS-232) 通讯口 (Slave)
* 2 位数 I/O 指示模块：11 电源
* 4 位数 I/O 端子：12 扩充机壳连接孔
* 5 DIN 轨锁定扣：13 扩充机壳孔
* 模拟 I/O 端子：14 DIN 轨槽 (35mm)
* 6 输出/输入指示灯：15 扩充机壳扣
* 7 COM1 (RS-232) 通讯接收：16 COM2 (RS-485) 通讯口 (Master/Slave)
* 8 (Rx) 指示灯：17 电源输入口
* 9 COM2 (RS-485) 通讯传送 (Tx)
* 10 COM1 (RS-232) 通讯口 (Slave)
* 11 电源
* 12 扩充机壳连接孔
* 13 扩充机壳孔
* 14 DIN 轨槽 (35mm)
* 15 扩充机壳扣
* 16 COM2 (RS-485) 通讯口 (Master/Slave)
* 17 电源输入口
* 18 2-pin 液晶屏端子 (标准附件)
* 19 电源输入连接线 (标准附件)

- * 動作指示：當輸出點動作時，正面的該點指示燈亮。
* 隔離回路：PLC 內部回路與輸入模組之間使用光耦合器做信號隔離。

- * 电池安装、更换电池时，请在 3 分钟内完成。详细说明请参考 3.2 注意事项之电池寿命补充说明。

2 产品规格

■ 电气规格

项目	DVP10SX11R	DVP08SM11N	DVP08SN11R	DVP08SP11R	DVP16SP11R
电源电压	主机：24VDC (-15% ~ 20%) (共直流输入电源相序接线保护)，扩展：由主机供电				
电源除险容量	2A / 250VAC				
消耗电力	SW 1W 1.5W 1.5W 2W				
绝缘抵抗	5MΩ以上 (所有输出点到地之间 500VDC)				
ESR 8KV Air Discharge					
EFT: Power Line: 2KV, Digital I/O: 1KV; Analog & Communication I/O: 250V Damped-Oscillatory Wave: Power Line: 1KV, Digital I/O: 1KV					
接地	接线端子线径不得大于电源端 L/N 之线径 (多台 PLC 同时使用时, 请务必单点接地)				
操作/储存环境	操作: 0°C ~ 55°C (湿度: 5 ~ 95% (凝露))，污染等级 2 储存: -25°C ~ 70°C (湿度: 5 ~ 95% (凝露))，D/A 输入操作: 0°C ~ 50°C (湿度)				
耐振/冲击	国际标准规范 IEC60113-2, IEC68-2-6 (TEST Fc)/IEC61131-2 & IEC68-2-27 (TEST Ea)				
重量 (g)	138 / 133	64	88 / 88	90 / 70	96 / 76
认证	CE (RoHS)				

注意：空端子 ● 請勿配線。

输入/输出电气规格

输入形式	输出形式	继电器-R	晶体管-T
直流通 (SINK or SOURCE)	电流 规格	1.5A/1 点 (5A/COM)	0.3A/1 点 @ 40°C
输入电流	电压 规格	250VAC/30VDC 以下	30VDC
动作位准	最大负载	75VA (电感性)	9W/1 点 (电容性)
反应时间	反応時間	约 10ms (由 D1020 及 D1021 可作 2~20ms 的调整)	Off → On 20us On → Off 30us Y0, Y1 输出为高速脉冲输出点

输出点电气规格

输入形式	输出形式	继电器-R	晶体管-T
直流通 (SINK or SOURCE)	电流 规格	1.5A/1 点 (5A/COM)	0.3A/1 点 @ 40°C
输入电流	电压 规格	250VAC/30VDC 以下	30VDC
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输入/输出电气规格

输入单元	输出单元
机种	输入形式 形式
DVP10SX11R	DI AI DI AI DO/AO DO/AO
24VDC +20%/-15%	4 2 4 2 Sink or Source
24VDC	DC24V/5mA (范围: -1.000 ~ +1.000, -20 ~ 20mA)
-15%	-10 ~ +10V (范围: -2.000 ~ +2.000, -20 ~ 20mA)
DVP10SX11T	DI AI DI AI DO/AO DO/AO
-15%	2 2 晶体管 (范围: -10 ~ +10V, -2.000 ~ +2.000)

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