

**DVP20SX211T Y DVP20SX211R**  
**MAPA DE MEMORIA, ENTRADAS Y SALIDAS.**

Specifications						
Control Method		Stored program, cyclic scan system				
I/O Processing Method		Batch processing method (when END instruction is executed)				
Execution Speed		LD instructions – 0.54µs, MOV instructions – 3.4µs				
Program language		Instruction List + Ladder + SFC				
Program Capacity		15872 steps				
Bit Contacts	X	External inputs		X0~X377, octal number system, 256 points max.	Total 480 + points for PLC (*4)	
	Y	External outputs		Y0~Y377, octal number system, 256 points max.		
	M	Auxiliary relay	General		M0~M511, 512 points, (*1) M768~M999, 232 points, (*1) M2000~M2047, 48 points, (*1)	Total 4096 points
			Latched		M512~M767, 256 points, (*2) M2048~M4095, 2048 points, (*2)	
			Special		M1000~M1999, 1000 points, some are latched	
	T	Timer	100ms (M1028=ON, T64~T126: 10ms)		T0~T126, 127 points, (*1)	Total 256 points
					T128~T183, 56 points, (*1)	
					T184~T199 for Subroutines, 16 points (*1)	
			10ms (M1038=ON, T200~T245: 1ms)		T200~T239, 40 points, (*1)	
	T240~T245(accumulative), 6 points, (*1)					
	1ms		T127, 1 points, (*1)			
			T246~T249(accumulative), 4 points, (*1)			
	C	Counter	16-bit count up		C0~C111, 112 points, (*1)	Total 233 points
					C128~C199, 72 points, (*1)	
C112~C127, 16 points, (*2)						
32-bit count up/down			C200~C223, 24 points, (*1)			
			C224~C232, 9 points, (*2)			
32bit high-speed count up/down			Soft- ware  Hard- ware	C235~C242, 1 phase 1 input, 8 points, (*2)		
		C233~C234, 2 phase 2 input, 2 points, (*2)				
		C243~C244, 1 phase 1 input, 2 points, (*2)				
		C245~C250, 1 phase 2 input, 6 points, (*2)				
		C251~C254 2 phase 2 input, 4 points, (*2)				
S	Step point	Initial step point		S0~S9, 10 points, (*2)	Total 1024 points	
		Zero point return		S10~S19, 10 points (use with IST instruction), (*2)		
		Latched		S20~S127, 108 points, (*2)		
		General		S128~S911, 784 points, (*1)		
		Alarm		S912~S1023, 112 points, (*2)		
Word Register	T	Current value		T0~T255, 256 words		
	C	Current value		C0~C199, 16-bit counter, 200 words		
C200~C254, 32-bit counter, 55 words						

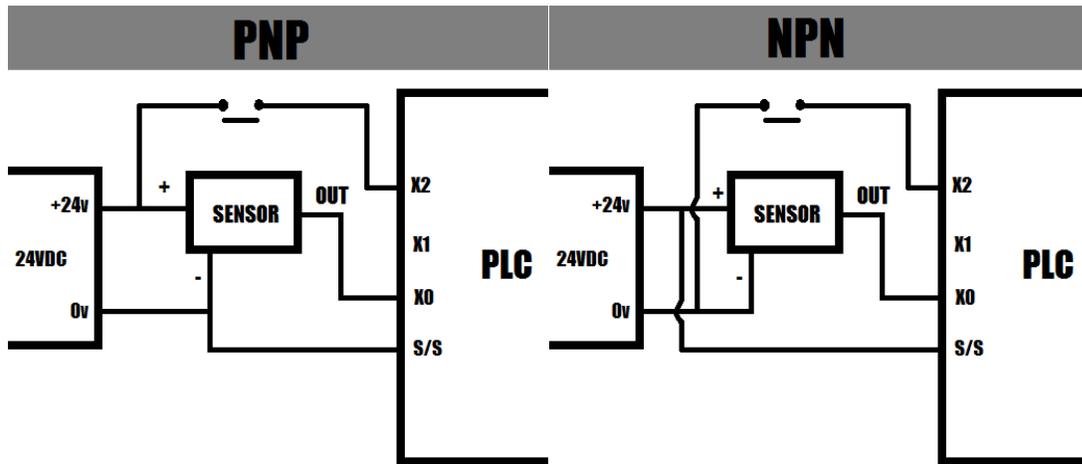
D

Specifications					
	D	Data register	General	D0~D407, 408 words, (*1) D600~D999, 400 words, (*1) D3920~D9799, 5880 words, (*1)	Total 10000 points
			Latched	D408~D599, 192 words, (*2) D2000~D3919, 1920 words, (*2)	
			Special	D1000~D1999, 1000 words, some are latched	
			Right-side special module	D9900~D9999, 100 words (*1) (*6)	
			Left-side special module	D9800~D9899, 100 words (*1) (*7)	
			Index	E0~E7, F0~F7, 16 words, (*1)	
Pointer	N	Master control loop		N0~N7, 8 points	
	P	Pointer		P0~P255, 256 points	
	I	Interrupt Service	External interrupt	I000/I001(X0), I100/I101(X1), I200/I201(X2), I300/I301(X3), I400/I401(X4), I500/I501(X5), I600/I601(X6), I700/I701(X7), 8 points (01: rising-edge trigger $\lceil$ , 00: falling-edge trigger $\lfloor$ )	
			Timer interrupt	I602~I699, I702~I799, 2 points (Timer resolution = 1ms) I805~I899, 1 point (Timer resolution = 0.1ms) (Supported by V2.00 and above)	
			High-speed counter interrupt	I010, I020, I030, I040, I050, I060, I070, I080, 8 points	
Communication interrupt			I140(COM1), I150(COM2), I160(COM3), 3 points, (*3)		
Constant	K	Decimal		K-32,768 ~ K32,767 (16-bit operation), K-2,147,483,648 ~ K2,147,483,647 (32-bit operation)	
	H	Hexadecimal		H0000 ~ HFFFF (16-bit operation), H00000000 ~ HFFFFFFFF (32-bit operation)	
Serial Ports			SA2	COM1: built-in RS-232 ((Master/Slave) COM2: built-in RS-485 (Master/Slave) COM3: built-in RS-485 (Master/Slave) COM1 is typically the programming port.	
			SX2	COM1: built-in RS-232 ((Master/Slave) COM2: built-in RS-485 (Master/Slave) COM3: built-in USB (Slave) COM1 is typically the programming port.	
Real Time Clock				Year, Month, Day, Week, Hours, Minutes, Seconds	
Special I/O Modules				Right side: Up to 8 I/O modules can be connected Left side: Up to 8 high-speed I/O module can be connected	
File Register (*5)				K0~K4999, 5000 points (*2)	

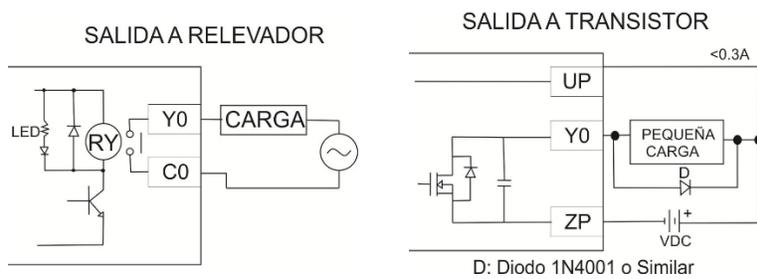
**Notes:**

1. Non-latched area cannot be modified
2. Latched area cannot be modified
3. Please refer to the table above for more information about serial ports. SX2 does not support I160.
4. The PLC occupies 16 input points (X0~X17) and 16 output points (Y0~Y17). The extension input point starts from X20 and extension output point from Y20.
5. If the firmware version of an MPU is 2.0 or above, the MPU support the use of file registers. Please refer to the instruction MEMR/MEMW for more information about the reading/writing of data.

Entradas:



Salidas:



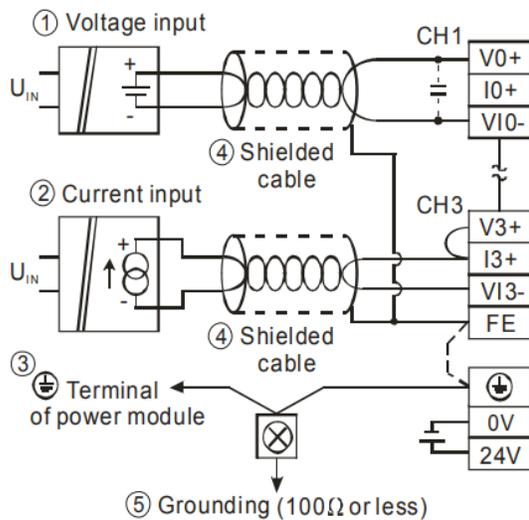
D: Diodo 1N4001 o Similar

Nombre de la entrada	Entradas	
	X0-X3	X4-X7
Corriente de entrada	5mA a 24VDC	
Impedancia de entrada	4.7K $\Omega$	
Frecuencia máxima	20kHz	10kHz
Nivel de voltaje ON	> 15VDC	
Nivel de voltaje OFF	< 5VDC	
Tiempo de respuesta OFF a ON	< 10 $\mu$ s	< 20 $\mu$ s
Tiempo de respuesta ON a OFF	< 20 $\mu$ s	< 50 $\mu$ s
Tiempo de filtrado	Ajustable entre 0 y 20ms en el registro D1020 (Configuración de fábrica 10 ms)	

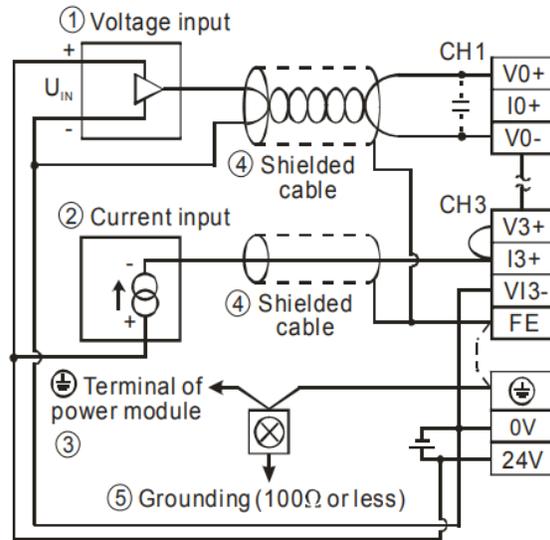
Nombre de la Salida	Salidas			
	Relevador	Transistor		
Nombre de la Salida	Y0-Y5	Y0, Y2	Y1, Y3	Y4, Y5
Corriente Máxima	1.5A (5A el COM)	0.5A (3A el COM) SX211T 0.3A (1.8A el COM) SX211S		
Frecuencia máxima	1Hz	100kHz	10kHz	1kHz
Voltaje de trabajo	250VAC, < 30VDC	5 - 30 VDC		
Tiempo de respuesta OFF a ON	Aprox. 10 ms	2μs	20μs	100μs
Tiempo de respuesta ON a OFF	Aprox. 10 ms	3μs	30μs	100μs

## ◆ A/D and D/A External Wiring

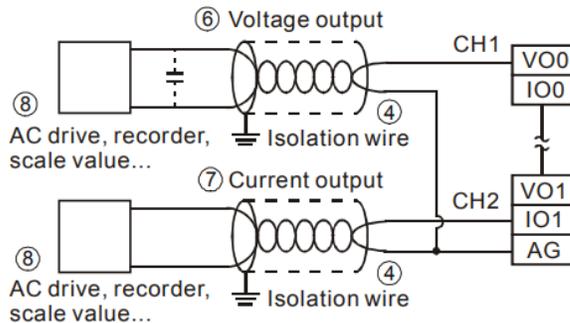
### • A/D: Active



### • A/D: Passive



### • D/A



Note: When the A/D module is connected to current signals, make sure to short-circuit "V+" and "I+" terminals.