

DVP08ST11N

Switch-Type Digital Extension Module

Instruction Sheet



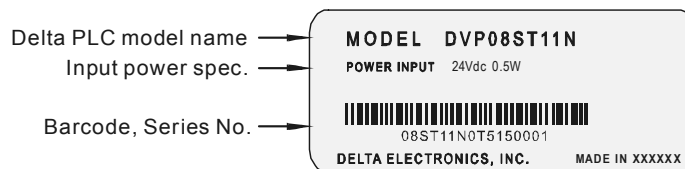
Warning

- ✓ Please read this instruction carefully before use.
- ✓ DVP08ST11N is an OPEN-TYPE device and therefore should be installed in an enclosure free of airborne dust, humidity, electric shock and vibration. The enclosure should prevent non-maintenance staff from operating the device (e.g. key or specific tools are required to open the enclosure) in case danger and damage on the device may occur.
- ✓ DO NOT touch any terminal when the power is switched on.

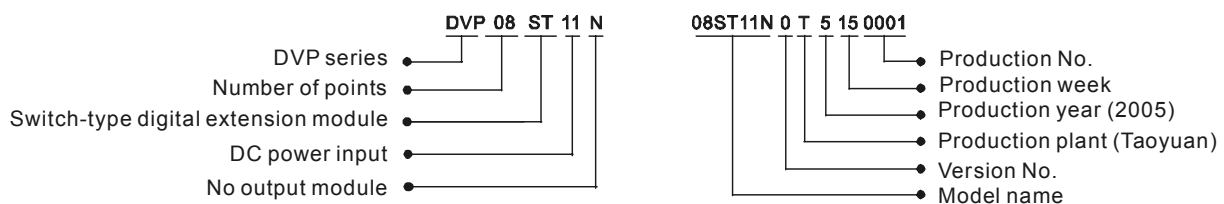
1 Introduction

1. Thank you for choosing Delta DVP series programmable logic controller. DVP08ST11N shall be used together with PLC SLIM TYPE PLC occupying 8 input points. Including MPU, the digital I/O can be extended to maximum 256 points. Besides, maximum 8 special extension modules (AD/DA/XA/PT/TC) are extendable from MPU.
2. No external power supply and signals are required, DVP08ST11N allows you to directly control its input points by its switches.
3. As digital switches, DVP08ST11N is able to input instructions without required external wiring for receiving signals. Besides, DVP08ST is handy and safe for using in teachings.

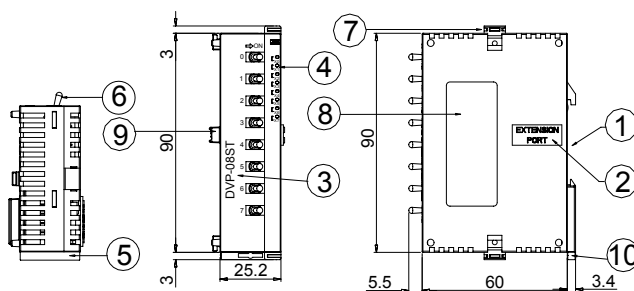
❖ Nameplate



❖ Model Name and Series No.



2 Product Profile & Outline



Unit: mm

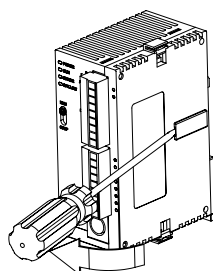
- ① DIN rail (35mm)
- ② Extension unit/module connection port
- ③ Model name
- ④ Input indicator
- ⑤ DIN rail clip
- ⑥ Input switch
- ⑦ Fixing clip for extension unit
- ⑧ Nameplate
- ⑨ Extension unit/module connection port
- ⑩ Aiming pinhole for connection to MPU

③ Electrical Specifications

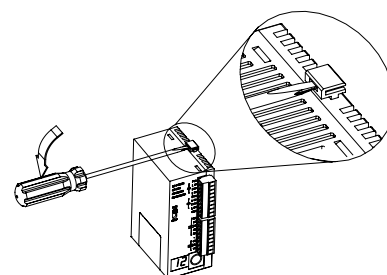
Model	DVP08ST11N
Items	
Power voltage	24VDC (-15% ~ 20%) (Power is supplied by the internal bus of MPU)
Power consumption	0.5W
Noise immunity	ESD(IEC 61131-2, IEC 61000-4-2): 8KV Air Discharge EFT(IEC 61131-2, IEC 61000-4-4): Power Line: 2KV, Digital I/O: 1KV, Analog & Communication I/O: 1KV Damped-Oscillatory Wave: Power Line: 1KV, Digital I/O: 1KV RS(IEC 61131-2, IEC 61000-4-3): 26MHz ~ 1GHz, 10V/m
Operation/storage	Operation : 0°C ~ 55°C (Temperature), 50 ~ 95% (Humidity), Pollution degree 2 Storage: -40°C ~70°C (Temperature), 5 ~ 95% (Humidity)
Vibration/ Shock immunity	International standard: IEC1131-2, IEC 68-2-6 (TEST Fc)/IEC1131-2 & IEC 68-2-27 (TEST Ea)
Weight (g)	60g

④ How to Install

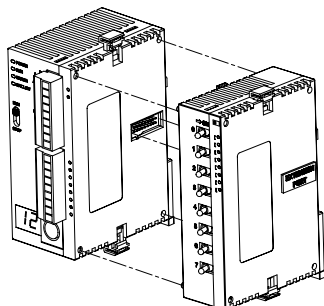
1. Use a screwdriver to open the side cover and reveal the connecting port.



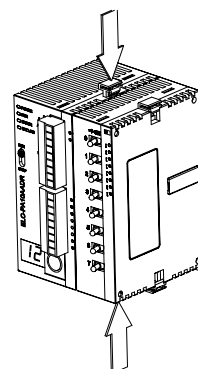
2. Use the screwdriver to lift and unfasten the fixing clip.



3. Accurately connect the extension module to the MPU by using the pinholes at each corner.



4. Secure the extension module to the MPU by pushing down the fixing clips.



5. **Order of the I/O point No.:** The input points of the first extension module are lined up from X20 and output points are lined up from Y20. The rule applies to all MPU connections with extension modules of any number of points.

Model	Input points	Output points	No. of input points	No. of output points
DVP12SA11R	8	4	X0 ~ X7	Y0 ~ Y3
DVP08ST11N	8	0	X20 ~ X27	-
DVP16SP11R	8	8	X30 ~ X37	Y20 ~ Y37

⑤ Troubleshooting

❖ Input LED Indicator

The On/Off of input signals can be indicated by the input LED indicator. When the input is On, the LED will be on. If error occurs, please check if the loops of the LED and input signal are normal by using HPP/WPL. Please also be aware that:

1. Do NOT place DVP08ST11N under direct sunlight and please avoid placing it next to overheating objects in case the high temperature will affect the functions of DVP08ST11N.
2. Please clean the airborne or conductive dust on the panel on a regular basis.