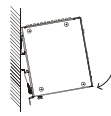


# DVS series

## Instruction Sheet

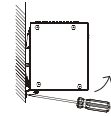
## 安 装 說 明 書 安 装 說 明

5/8/16-port Unmanaged Industrial Ethernet Switches  
5/8/16埠工業級非網管型乙太網路交換器  
5/8/16口非網管型工業以太网交换机



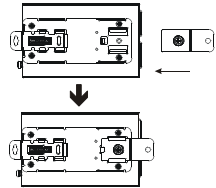
### • Removal

- Step 1: Insert the flat-blade screwdriver into the DIN clip and pull the DIN clip downward.  
Step 2: Pull the DVS series switch, and you can remove it from the DIN-Rail.



### • Wall Mounting

- Step 1: Insert the wall mounting bracket into the slot on the rear panel of the DVS series switch, and tighten the screw on it, as shown in the diagram below.  
Step 2: Place the wall mounting bracket in an appropriate position, and tighten the two screws on the bracket and the DIN clip.



## ⑤ Wiring the Redundant Power Input

Except the DVS-005I00, the DVS series switches are equipped with two sets of DC input (PWR1 / PWR2). Both sets of DC input can be connected to a wide range of power sources (12~48VDC). If one power source fails, the other live source can work as a backup to ensure that the machine operates normally.

- Step 1: Insert the negative and positive DC wires into the terminal block, and make sure that the positive DC wire is connected to V1+ or V2+, and that the negative DC wire is connected to 0V.  
Step 2: To prevent the loose DC wires, tighten the wire clamp screws on the terminal block connector with the flat-blade screwdriver.



## ⚠ Warning

- This instruction sheet only provides information on electrical specifications, general specifications, installation and wiring.
- The components and the IC on the circuit board can be easily damaged by static electricity, therefore DO NOT touch them before precautions against static electricity are done. To prevent the danger and damage from occurring, people who are not maintenance staff should not operate or accidentally hit the body of the DVS series switch. Besides, DO NOT touch any terminal when the power is switched on.
- This product is equipped with Class 1 LASER/LED components. DO NOT stare directly at the LASER/LED beam to avoid serious injury to your eyes.
- Please read this instruction sheet thoroughly, and follow the instructions to prevent the damage to the device or injury to the staff.

## ① Introduction

Thank you for purchasing the DVS Unmanaged Industrial Ethernet Switches. The DVS series switches including 5, 8, and 16-port smart switches. Except the DVS-005I00, The DVS series switches are equipped with the intelligent alarm function, and allow the wide range of operating temperature (-40 to 75°C). The DVS series switches are designed to support the application in any rugged environment and comply with UL, CE and FCC standards.

## ② Functions

- 10/100Base-T(X) (RJ-45), 100Base-FX (SC/ST-Type SingleMode/MultiMode)
- IEEE802.3/802.3u/802.3x
- Auto-negotiation speed
- Auto-MDI/MDI-X

## ③ Package Checklist

- Delta DVS Unmanaged Ethernet Switch
- Instruction Sheet
- Wall Mounting Plate
- Warranty Card

## ④ Installation

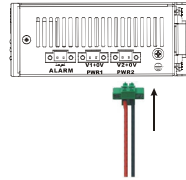
### • DIN-Rail Mounting

### • Mounting

- Step 1: Hook the upper end of the DIN clip of the DVS series switch on the DIN-Rail.  
Step 2: Lightly push the DVS series switch toward the DIN-Rail until they contact each other closely.



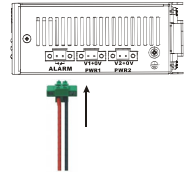
Step 3: Insert the plastic terminal block connector into the terminal block receptor on the DVS series switch.



NOTE: Grounding the ground terminal on the DVS series switch can avoid the noise effect due to the electromagnetic interference (EMI).

## ⑥ Wiring the Alarm Contact

The alarm contact is a dry relay. If one of the two power sources fails or the communication is interrupted, the contact will turn from an "OPEN" circuit to a "CLOSED" circuit. The relay can be connected to a 5A/24VDC power source.



## ⑦ DIP Switch Setting

ON:	After the corresponding switch of the port is enabled, when the communication is interrupted, the relay will form a "CLOSED" circuit, and the alarm LED will be on.	
OFF:	After the corresponding switch of the port is disabled, when the communication is interrupted, the relay still forms an "OPEN" circuit, and the alarm LED will not be on.	

## ⑧ LED Indicators

### ■ LED DVS-005I00

LED	Color	Status	Description
PWR	Green	ON	The power is supplied normally.
		OFF	The power is not supplied.
100M	Orange	ON	The port is connected at a speed of 100 Mbps.
		OFF	The port is connected at a speed of 10 Mbps or disconnected.
LINK/ACT	Green	ON	The Network communication connection has been established.
		Blinking	The data is being transmitted.
		OFF	The Network communication connection has not been established.

### ■ DVS-005W01 / DVS-008W01 / DVS-016W01

LED	Color	Status	Description
ALARM	Red	ON	The communication is interrupted, or there is a power failure.
		OFF	The communication is not interrupted, or there is no power failure. The DIP switch is not enabled.
PWR1	Green	ON	The power is supplied normally.
		OFF	The power is not supplied.
PWR2	Green	ON	The power is supplied normally.
		OFF	The power is not supplied.
100M	Orange	ON	The port is connected at a speed of 100 Mbps.
		OFF	The port is connected at a speed of 10 Mbps or disconnected.
LINK/ACT	Green	ON	The Network communication connection has been established.
		Blinking	The data is being transmitted.
		OFF	The Network communication connection has not been established.

### ■ DVS-005W01-MC01 / DVS-008W01-MC01 / DVS-016W01-MC01

LED	Color	Status	Description
ALARM	Red	ON	The communication is interrupted, or there is a power failure.
		OFF	The communication is not interrupted, or there is no power failure. The DIP switch is not enabled.
PWR1	Green	ON	The power is supplied normally.
		OFF	The power is not supplied.
PWR2	Green	ON	The power is supplied normally.

LED	Color	Status	Description
100M	Green	OFF	The power is not supplied.
		ON	The fiber port is connected at a speed of 100 Mbps.
100M (on the RJ-45 port)	Orange	OFF	The fiber port is not connected.
		ON	The port is connected at a speed of 100 Mbps.
LINK/ACT	Green	ON	The Network communication connection has been established.
		Blinking	The data is being transmitted.
		OFF	The Network communication connection has not been established.

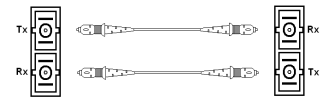
## ⑨ Ethernet Interface

### ■ 10/100Base-T(X) Connection

The 10/100Base-T(X) ports of the DVS series switches are used to connect to Ethernet. They can support MDI (NIC-type) and MDI-X (HUB/Switch-type) modes, the pin definition of the Ethernet cable is as follows.

PIN	MDI Mode Definition	MDI-X Mode Definition	8-PIN RJ45
1	Tx+	Rx+	
2	Tx-	Rx-	
3	Rx+	Tx+	
6	Rx-	Tx-	

### ■ 100Base-FX Connection



## ⑩ Mechanical Characteristics

	DVS-005	DVS-008	DVS-016
Case	IP30 Aluminum metal case		
Dimension(mm)	145.3 (H) x 45(W) x 108.7(D)	145.3(H) x 75(W) x 108.7(D)	
Weight(g)	300	430	490

◆ For more information about the product, please visit <http://www.delta.com.tw>.