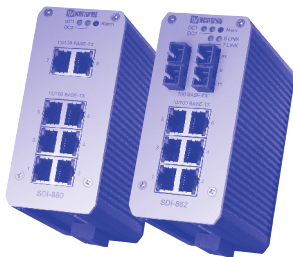


SDI-880/862

Quick Installation Guide



Industrial Ethernet Switch

www.westermo.com

Introduction

SDI-880/SDI-862 Industrial Ethernet Switch, conforming to IEEE 802.3 and 802.3u standard, supports 8 10/100Base TX (SDI-880) or 6 10/100TX plus two 100FX Fast Ethernet fiber ports in either multi-mode type (SDI-862-MM-SC2) or single-mode type (SDI-862-SM-SC30).

The SDI-880/SDI-862 adopts rugged metal case design to operate in harsh environments (SDI-880 -25~70°C)/(SDI-862 -10~70°C); It also provides IP-31 standard protection. It features one relay output to alarm users if a port link fails or in the event of a power failure. Alarms can be enabled/disabled by a 9-pin dip switch. SDI-880/SDI-862 is recommended to be powered by DC 12V/24V/48V with 10~60V range from the 6-pin removable terminal block.

Package contents Check List

Box contents

- ▶ SDI-880/SDI-862 Switch
- ▶ Quick Installation Guide



Mounting the Unit

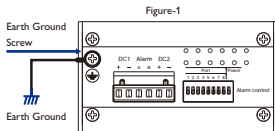
- ▶ Din-Rail mount: Mount the din-rail clip

screwed on the rear of SDI-880/SDI-862 on the DIN rail.



Grounding SDI-880 / SDI-862 Switch

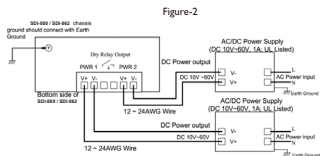
There is one grounding screw on the bottom side of SDI-880/SDI-862. Connect the earth ground screw of switch to the grounding surface to ensure safety and prevent noise. See, Figure-1



Warning: Do not connect to AC line neutral

Wiring the Power Inputs

1. Insert the positive and negative wires into the V+ and V- contact on the terminal block connector.
2. Tighten the wire-clamp screws to prevent the DC wires from being loosened. See Figure-2



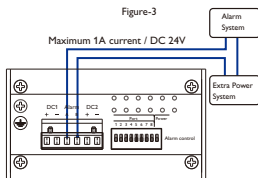
Notes:The recommended working voltage is **DC12V/24V/48V (DC10~60V, 0.8A)**.

Wiring the Relay Output

The relay output alarm contacts are in the middle of the terminal block connector as shown in figure 3.

By inserting the wires and set the DIP switch of the respective Alarm to “ON”, relay output alarm will detect any port failures, and form a short circuit.

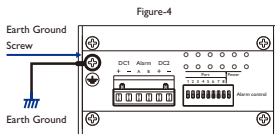
The alarm relay output is “Normal Open”. See, Figure -3.



Wiring the Earth Ground

In an industrial environment, there might be a lot of devices that generate electromagnetic noise, such as AC motors, electric welding machine, power generator. These devices will generate electric noise or surges that might disturb communications. To prevent those noises, the switch should be well grounded.

Figure 4 shows how proper wiring should be made.



Warning: Do not connect to AC line neutral

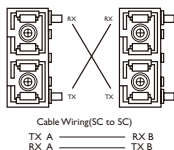
Connecting to Network

1. Connecting the Ethernet Ports: Connect one end of an Ethernet cable into an RJ-45 port SDI-880/SDI-862, while the other end is connected to the attached networking device. All UTP ports support auto MDI/MDIX function. The Speed LED will turn on for 100M link and turn off for 10Mbps link, the LNK/ACT LED will turn on for link up and blink for packet transmit and receive. The fiber ports only support 1 LED for Link and Activity.
2. Connecting the Fiber Ports (SDI-862) : Connect the fiber ports on your SDI-862 to another Fiber Ethernet device, by following the figure below. Wrong connection will cause the fiber ports not work properly.

ATTENTION



This is a Class 1 Laser/LED product.
Don't look into the Laser/LED Beam.



DIP Switch Settings for Alarm Relay Output

Pin No. #	Status	Description
P1 to P8 (Pin1 ~ 8)	ON	To enable port link down alarm at this port.
	Off	To disable port link down alarm at this port.
P9	ON	To enable power failure alarm.
	Off	To disable power failure alarm.



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