

| Power-on Value | 2-Channel Signal Relay Output (Form A) | Contact Rating | 2A @30V DC/0.24A @220V DC/0.25A @250V AC | Min. Contact Load | 10mA @ 20 mV | Contact Material | AgNi, Gold-covered | Operation Time | 3 ms (typical) | Release Time | 4 ms (typical) | 10⁸ ons 10⁸ ops 2 x 10⁵ ops Mechanical Endurance Electrical Endurance Environment

Operating Temp. (with airflow) Storage Temp. Humidity -25°C ~ 75 °C (-13 °F ~ 167°F) -40°C ~ 85°C (-40°F ~ 185°F) 20% ~ 90%

Yes

Specifications

3000V

Communication Interface

Communication Protocol Intra-module Isolation

Power Supply System Weight and Dimensions

5-Channel Digital Input / Counter Type W On Voltage Level W Off Voltage Level W Input Impedance 11

Baud Rate

LED Indicator

I2C Interface

5-Channel Counter

Power-on Value

Contact Rating Min. Contact Load

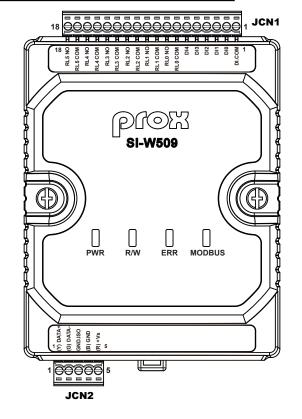
Power-on Value

Overvoltage Protection

Contact Material Operation / Release Time Electrical Endurance

SI-W509

Pin Assignment



I/O Channel Connector (JCN1)

Pin No.	Signal			
1	DI.COM			
2	DI0			
3	DI1			
4	DI2			
5	DI3			
6	DI4			
7	RL0 COM			
8	RL0 NO			
9	RL1 COM			
10	RL1 NO			
11	RL2 COM			
12	RL2 NO			
13	RL3 COM			
14	RL3 NO			
15	RL4 COM			
16	RL4 NO			
17	RL5 COM			
18	RL5 NO			

RS-485 and Power Connector(JCN2)

Pin No.	Signal		
1	(Y)DATA+		
2	(G)DATA-		
3	GND.ISO		
4	(B)GND		
5	(R)+Vs		



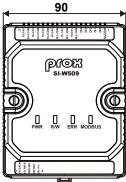
SI-W509

5 Channels Digital Input and 6 Channels Relay Output Remote I/O Module

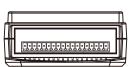
Overview

(Unit: mm)

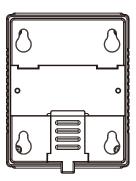
Front View



Top View



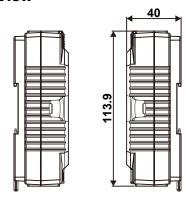
Rear View



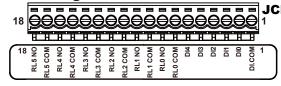
Bottom View



Side View



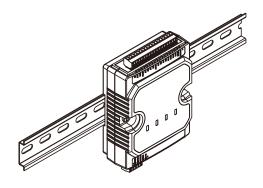
Pin Assignment



(Y) DATA	(G) DATA	GND.ISO	(B) GND	(R) +Vs	5
1		9	9	ē	5

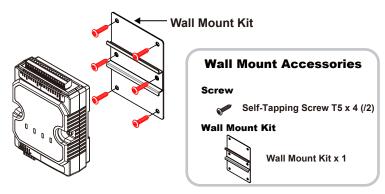
Quick Setup

Installing DIN-RAIL Mount



Installing Wall Mount

- **Step 1.** Prepare and fasten the 2 or 4 self-tapping T5 screws to tighten the wall mount kit onto the wall.
- Step 2. Attach the SI-Wx09 onto the wall mount kit installed on the wall to complete.



Safety Precaution

The following messages are reminders for safety on how to protect SI-W509 from damages and extend a long life for SI-W509. 1. Check the Cable Voltage

- The range of operating voltage should be DC 9~50V. Otherwise, the SI-W509 module could be damaged. 2. Environmental Conditions
- Place your SI-W509 on a sturdy, level surface. Be sure to allow enough space to have easy access around SI-W509. Avoid extremely hot or cold place to install the SI-W509.
- Avoid exposure to sunlight for a long period of time or in an airtight space.
 Avoid SI-W509 from any heating device or using SI-W509 when it's been left outdoors in a cold winter day.
- Avoid moving SI-W509 rapidly from a hot place to a cold place and vice versa because condensation may come from inside of SI-W509.
- Don't place SI-W509 close to any radio-active device in case of signal interference.

· Avoid putting heavy objects on top of SI-W509

- · Do not turn SI-W509 upside down
- 4. Good Care
 - When the outside of the case is stained, remove the stain with a neutral washing agent with a dry cloth.
- · Never use strong agents such as benzene and thinner to clean SI-W509.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or with alcohol and then wipe thoroughly with a dry cloth.
- If dust has been accumulated on the outside, remove it by using a special vacuum cleaner for computers.

WARNING! Some internal parts of SI-W509 may have high electrical voltage. And therefore we strongly recommended that qualified engineers can open and disassemble SI-W509.