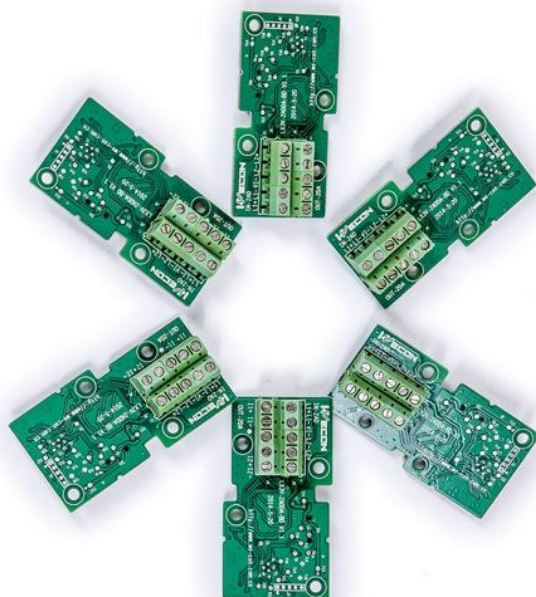


WECON

LX3V-4ADI-

BD



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I . Mounting instruction

Make sure to power off the PLC before mounting the LX3V-4ADI-BD module.and removing the top cover of PLC, screwed to the PLC.

Caution:

1. Please fixed BD board on the PLC, poor contact may lead to failure.
2. BD board and top cpver of PLC's tightening torque is 0.3 ~ 0.6 N.m

Warring: make sure to power off the PLC before mounting or removing the BD module.and put the cover in right place.

II . Special feature

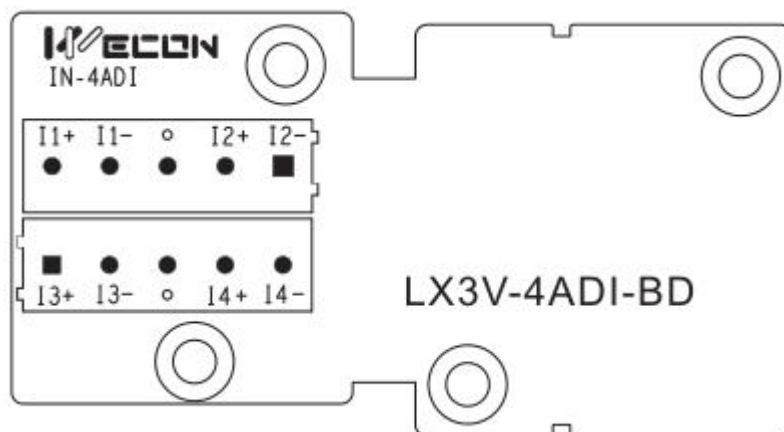
1). LX3V-4ADI-BD module equips with 4 channels analog input. This module will be mounted in the PLC.

2). The input voltage of LX3V-4ADI-BD module between 4 mA to 20mA, and the digital value will be saved in special system address, but the numerical relationship between input and output value can not be changed.

Address	Description	
M8112	The flag of switching Input mode in CH1 OFF: Voltage input mode (4mA~20mA, 0~2000)	ON: Retain
M8113	The flag of switching Input mode in CH2 OFF: Voltage input mode (4mA~20mA, 0~2000)	
M8114	The flag of switching Input mode in CH3 OFF: Voltage input mode (4mA~20mA, 0~2000)	
M8115	The flag of switching Input mode in CH4 OFF: Voltage input mode (4mA~20mA, 0~2000)	
D8112	The digital value of channel 1; (4mA~20mA, 0~2000)	
D8113	The digital value of channel 2; (4mA~20mA, 0~2000)	
D8114	The digital value of channel 3; (4mA~20mA, 0~2000)	
D8115	The digital value of channel 4; (4mA~20mA, 0~2000)	

Table 1.1 The description of system address

III. Dimension



IN-4ADI input voltage range: 4-20mA			
L1+	Anode of the channel 1 current input	L3+	Anode of the channel 3 current output
L1-	Cathode of the channel 1 current input	L3-	Cathode of the channel 3 current output
•	No connection	•	No connection
L2+	Anode of the channel 2 current input	L4+	Cathode of the channel 4 current input
L2-	Cathode of the channel 2 current input	L4-	Cathode of the channel 4 current output

Only one LX3V-4ADI-BD module in LX3V PLC can be detected.

IV. Specification

1. You may refer to the LX3V User manual for the general specification of LX3V-4ADI-BD.
2. Getting power supply from LX3V main unit.
3. Performance

item	Specification
	Current input
Input range	DC 4-20mA (Input resistance:250Ω)
Digital output	12 bits binary
Resolution	8uA (4mA-20mA/2000)
Precision	±1% (4-20mA: ± 0.16mA)
AD conversion time	One PLC scanning cycle

Characteristic	
Insulation	No insulation in each PLC channel
Occupied points	None

V. Wiring

Caution:

- 1). Don't put the LX3V-4ADI-BD module near high-voltage power cable. Keep away the power cable at least 100mm.
- 2). Do not soldering any terminal with the others device.
- 3). Do not connect any unsuitable cable.
- 4). Please fix cable.
- 5). Do not connect any unit to the unused terminal.

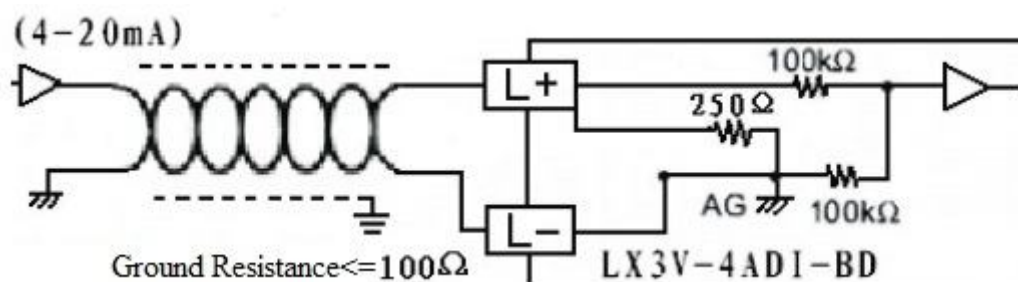
5.1 Suitable cable

Connect to output device with AWG25-16.

Max tighten torque of terminal is 0.5 to 0.6N.m.

Line type	Cross sectional area(mm ²)	End-of-pipe treatment	
AWG26	0.1288	Stranded cable: stripped jacket, rub Conductor, then connect the cable.	
.....		
AWG16	1.309	Single-core cable: stripped jacket, Then connect the cable.	

5.2 Input



VI. Example

The analog value(4-20mA) in each channel will be saved in system address(D8112, D8113). It will be saved automatically when “END”, and convert into digital value.

Caution:

1. Drive M8122 and M8113, and set the characteristic of conversion.
2. Do not change the value of D8112 and D8113.

AD conversion:

