

WECON

LX3V-4ADV-

BD



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LX3V-4ADV-BD

1. Mounting instruction

Make sure to power off the PLC before mounting the 4ADV module and remove the top cover of PLC, screwed to the PLC.

Caution: when output current, make sure that the load resistance should be less than 500Ω, otherwise the output will be lower.

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

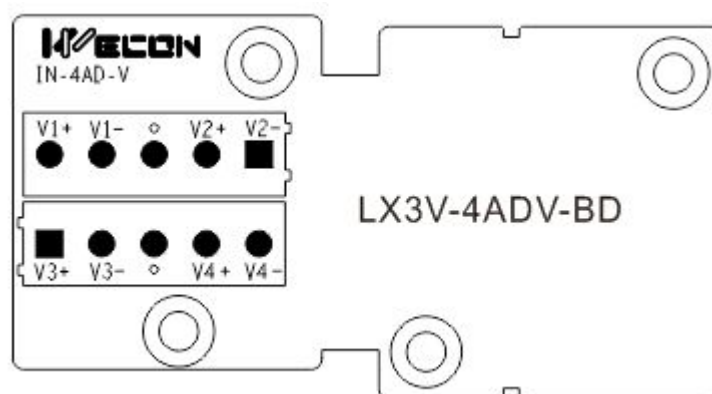
2. Special feature

- 1). LX3V-4ADV-BD module equips with 4 channels analog input. This module will be mounted in the PLC.
- 2). The input voltage of LX3V-4ADV-BD module between -10 to 10V, and the digital value will be saved in special system address, but the numerical relationship between input and output value can not be changed.

Table 1.1 The description of system address

Address	Description
D8112	The digital value of channel 1; (-10 ~10V: -2000~2000)
D8113	The digital value of channel 2; (-10 ~10V: -2000~2000)
D8114	The digital value of channel 3; (-10 ~10V: -2000~2000)
D8115	The digital value of channel 4; (-10 ~10V: -2000~2000)

3. Dimension



IN-4ADv input voltage range: -10~10V			
V1+	Anode of the channel 1 voltage input	V3+	Anode of the channel 3 current output
V1-	Cathode of the channel 1 voltage input	V3-	Cathode of the channel 3 current output
VI-	No connection	•	No connection

V2+	Anode of the channel 2 voltage input	V4+	Cathode of the channel 4 voltage input
V2-	Cathode of the channel 2 voltage input	V4-	Cathode of the channel 4 current output

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

4. Specification

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

item	Specification
	voltage input
Input range	DC -10 ~ 10V (Input resistance:150KΩ)
Digital output	12 bits binary
Resolution	4mV (10 : 1/2000)
Precision	± 1%
AD conversion time	One PLC scanning cycle
Characteristic	
Insulation	No insulation in each PLC channel
Occupied points	None

5. Wiring

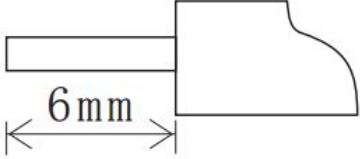
Caution:

- 1). Don't put the LX3V-4ADV-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.

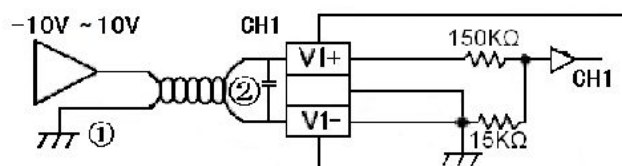
- 4). Please fix cable.
- 5). Do not connect any unit to the unused terminal.

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



6. Example

The analog value(-10~10V) in each channel will be saved in system address(D8112, D8113). It will be saved automatically when “END”, and convert into digital value.

6.1 Example 1

caution:

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

AD conversion:

<pre> M8000 ├── [RST M8112] ├── [RST M8113] ├── [MOV D8112 D0] └── [MOV D8113 D2] </pre>	<p>Set channel 1 as voltage input(-10 ~ 10V)</p> <p>Set channel 2 as voltage input(-10 ~ 10V)</p> <p>Save the value of channel 1 to D0</p> <p>Save the value of channel 2 to D2</p>
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