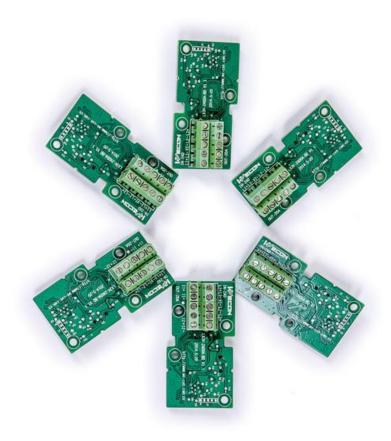


WECON LX3V-2AD2DA BD



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LX3V-2AD2DA-BD

1. Mounting instruction

Make sure to power off the PLC before mounting the 2AD2DA module.or removing the top cover of PLC, fix the BD board to the PLC.

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

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

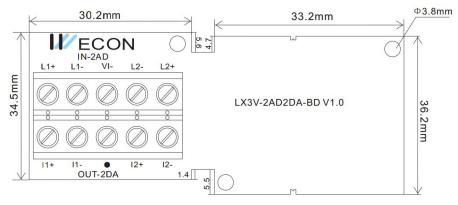
2. Special feature

- 1). LX3V-2AD2DA-BD module equips with 2 channels analog input and 2 channels analog output. This module will be mounted in the PLC.
- 2). The input current of LX3V-2AD2DA-BD module between 4 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.

1 7		
Address	Description	
D8112	The digital value of channel 1	
D8113	The digital value of channel 2	
D8114	The digital value of channel 3	
D8115	The digital value of channel 4	

Table 1.1 The description of system address

3. Dimension



IN-2AD Output current range: 4~20mA		IN-2DA Output current range: 4~20mA		
L1+	L1+ Anode of the channel 1 current input		Anode of the channel 1 current output	
L1-	L1- Cathode of the channel 1 current input		Cathode of the channel 1 current output	
VI- No connection		•	No connection	



L2+	Anode of the channel 2 current input	l2+	Cathode of the channel 2 current input
L2-	Cathode of the channel 2 current input	12-	Cathode of the channel 2 current output

Only one LX3V-2AD2DA-BD module in LX3V PLC can be recognized.

4. Specification

- 1). You may refer to the LX3V User manual for the general specification of LX3V-2AD2DA-BD.
- 2). Power supply from LX3V.

item	Specification		
Current input		Current output	
Input range	DC4~20mA (Input resistance:150Ω)	DC4~20mA (Load resistance should be	
	Max input: -2mA~60mA	less than 500Ω)	
Digital output	12 bits binary	12 bits binary	
Resolution	8uA	12 bits binary	
Precision	±1%	±1%	
AD conversion time	One PLC scanning cycle	One PLC scanning cycle	
Characteristic	Digital output 0 4mA 20mA Analog input	Analog output 4mA Digital input	
Insulation	No insulation in each PLC channel		
Occupied points Zero point		Zero point	

5. Wiring

Caution:

- 1). Don't put the LX3V-2AD2DA-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.

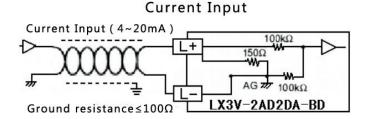
5.1 Suitable cable

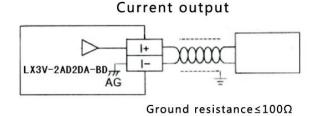
Connect to output device with AWG25-16.

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

Line type	Cross sectional area(mm²)	End-of-pipe treatment	
AWG26	0.1288	Stranded cable: stripped jacket, rub Conductor, then connect the	6mm
		cable.	
AWG16	1.309	Single-core cable: stripped jacket, Then connect the cable.	

5.2 Output and Input





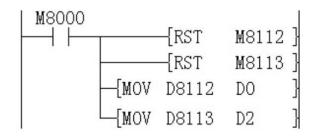
6. Example

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. On the contrary process when output. 6.1

caution: 1. trigger M8122 and M8113, and set the characteristic of conversion.

- 2. Do not change the states of ON of OFF during conversion process.
- 3. The AD conversion will fail if you change the state of M8112 of M8113. The DA conversion will fail if you change the state of M8114 of M8115.
- 4. Do not change the value of D8112 and D8113.

AD conversion:



Set channel 1 as current input(4~20mA)
Set channel 2 as current input(4~20mA)
Save the value of channel 1 to D0
Save the value of channel 2 to D2

DA conversion:



