LX3V-8EX/16EX

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This manual is applied to LX3V-8EX and LX3V-16EX digital input expansion modules.

1 Naming rule

Naming rule of LX3V I/O input expansion module:

$$\underline{\text{LX3V}}_{\textcircled{1}}\text{-}\underline{\text{16}}_{\textcircled{3}}\underline{\text{E}}_{\textcircled{4}}\underline{\text{X}}_{\textcircled{5}}$$

1. WECON PLC;
2. Main module;
3. The number of input points
4. Product type: E means expansion;
5. Expansion input(X)

2 Dimensions

87.5mm

9.5mm

52.5mm

58mm

80mm

90mm

⑧
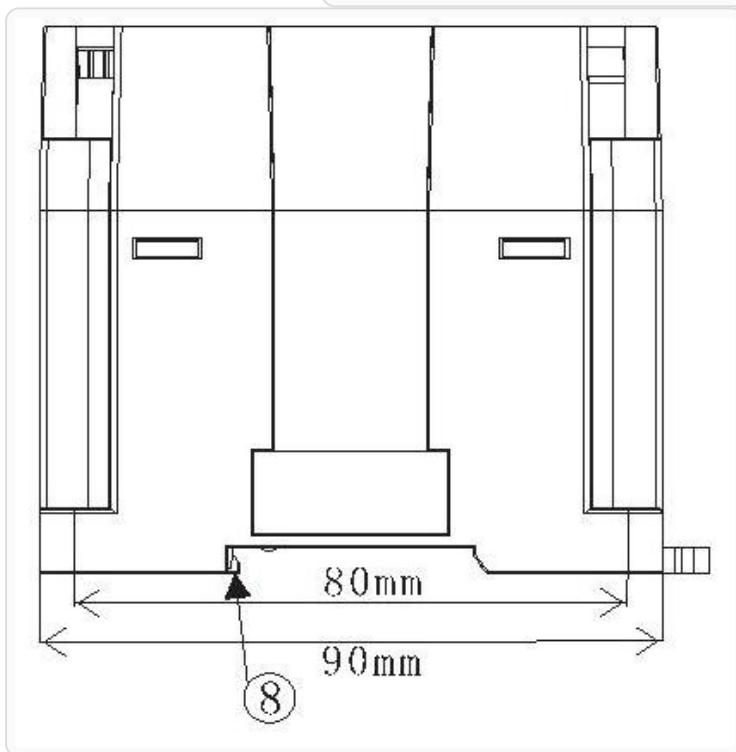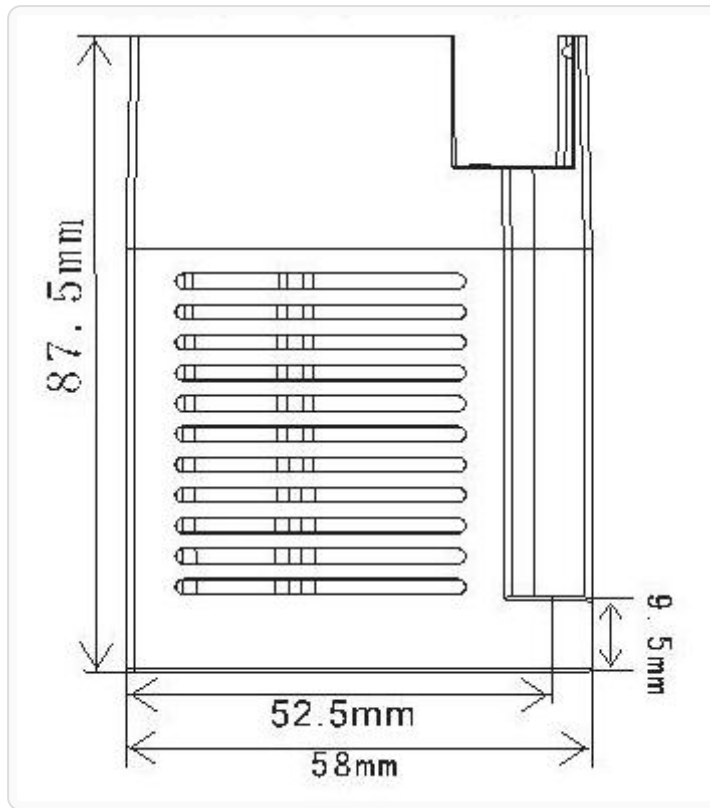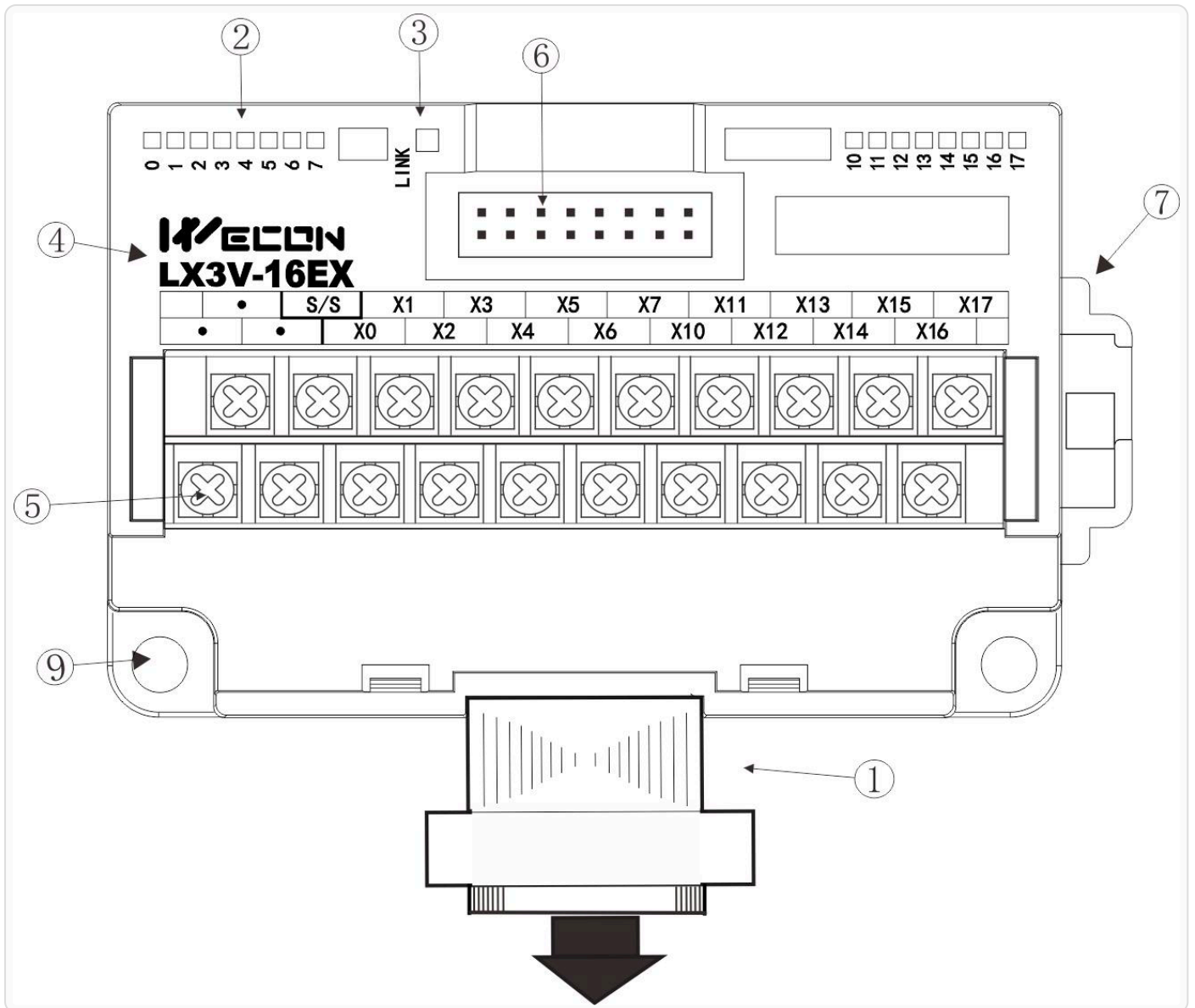
1. Extension cable
2. Input indicator light of each channel
3. LINK: Communication indicator between PLC and expansion module
4. Expansion module name
5. Digital signal output terminal
6. Extension module interface
7. DIN rail mounting slot
8. DIN rail hook
9. Mounting holes (φ4.5)

| Name	Description	Status	Event status
LINK	Communication indicator between PLC and expansion module	Flashes	Normal data transmission(normal communication)
		OFF	Data transmission is abnormal, stopped, or failed

ON	Software is abnormal or hardware is faulty

> ✎**Note:** Except different I/O input points, LX3V-8EX and LX3V-16EX have the same dimensions and the same other functions.
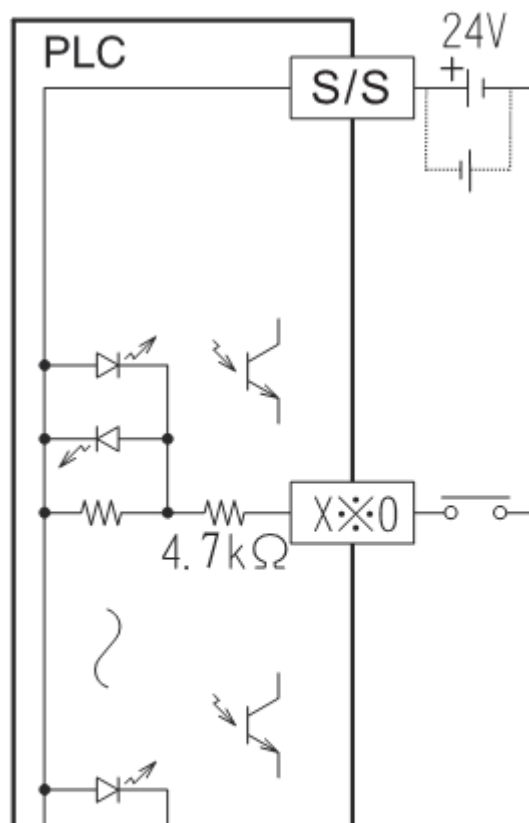
Crimp terminals
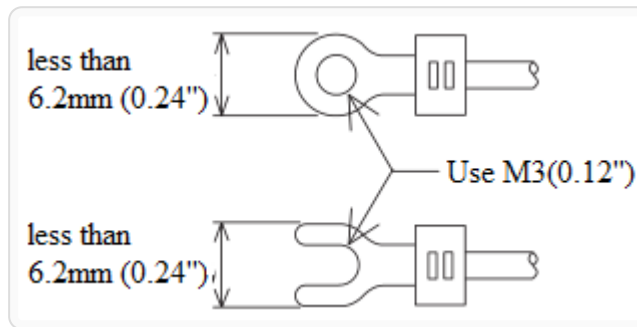
1. Please use crimp terminals as indicated on the graph.
2. The tightening torque should be applied 5 to 8 Kg.cm.
3. Other terminals should be empty but only wiring terminals mention in this manual.

3 Output specification

Item	DC input
Model	LX3V-8EX or LX3V-16EX
Output circuit	

Input signal voltage	DC ± 24V ± 10% *1
Input signal current	5mA/ DC 24V
Input ON current	More than 3.5mA
Input OFF current	Less than 1.5mA
Input response time	About 10ms
	X0 to X7 built-in digital filter, setting time 0 ~ 60ms
Input signal	Contactor input or NPN or PNP
Circuit insulation	Optocoupler insulation
LED	Lights when input ON

4 Instructions

The I/O input points on the module are named from the next X point, using the points on the host as endpoints. For example:

1. If the host is LX3V-1212MR-A and there are 12 input points (X0 to X7, X10 to X13).
2. If you expand an LX3V-16EX module on the host, the X points defined in the module on the host are X20 to X27 and X30 to X37.
3. If you expand multiple I/O input point modules on the host, the I/Os on the module will be named in the same order.

> ✎**Note:** When adding IO expansion modules to the host, in principle, the number of all input points X must not exceed 256 points. When adding IO expansion modules to the host, if the host needs to connect multiple IO modules, it is recommended to add a separate power supply board to the module for power supply.

5 Program

LX3V-3624MT   ①LX3V-16EX   ②LX3V-4DA   ③LX3V-16EX

As shown in the example above, it is LX3V-3624MT with two LX3V-16EX modules and one LX3V-4DA module. The host has 36 input points X: X0 to X7, X10 to X17, X20 to X27. X30 to X37 and X40 to X43. The input point in the module ① called by host are X50 to X57 and X60 to X67, and the input points in the module ③ called by host are X70 to X77 and X100 to X107.

LX3V-3624MT   ①LX3V-4TC   ②LX3V-4DA   ③LX3V-16EX
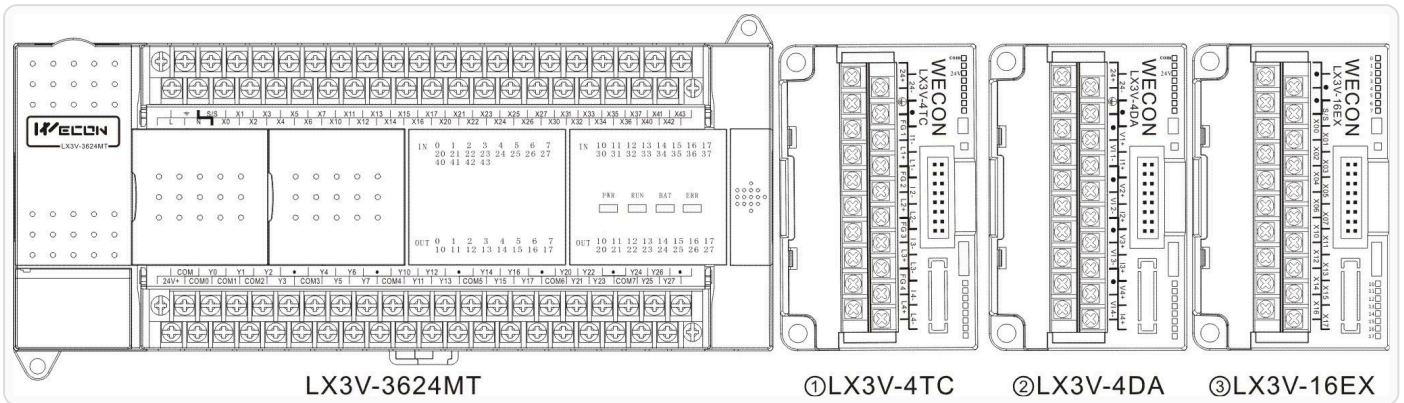
As shown in the example above, it is LX3V-3624MT with one LX3V-16EX and two LX3V-4DA modules. The host has 36 input points X: X0 to X7, X10 to X17, X20 to X27, X30 to X37 and X40 to X43. The input point in the module ③ called by host are X50 to X57 and X60 to X67.