



Input expansion module

User manual^{v3.0}



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1. General

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

2. Naming rule

Naming rule of LX3V I/O input expansion module:

LX3V-16 EX

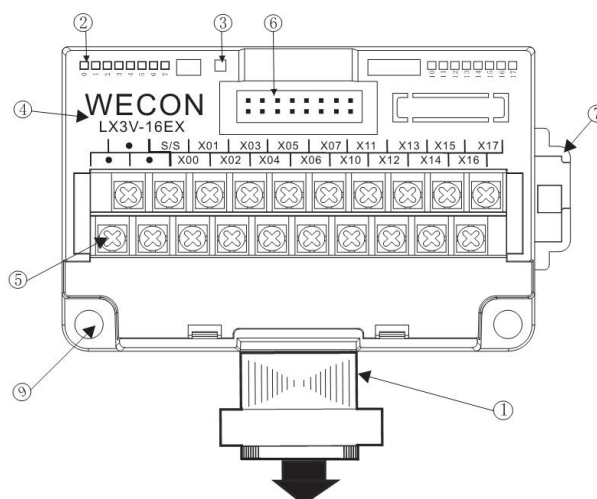
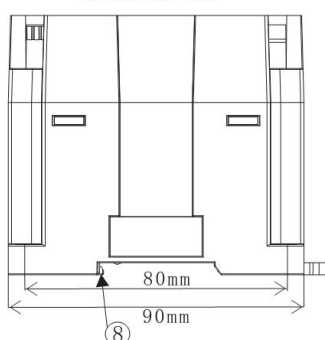
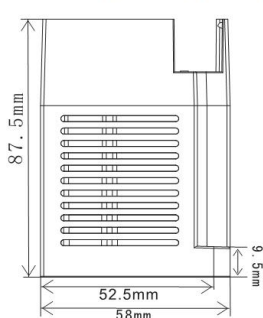
① ② ③ ④ ⑤

- ① WECON PLC;
- ② Main module;
- ③ Expansion module;
- ④ Product type, E means expansion;
- ⑤ Expansion input(X);

3. Dimensions

Weight: Approx 0.3kg (0.66lbs)

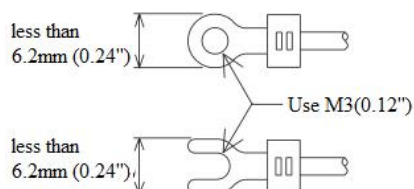
Dimensions: mm



- ① Extension cable and connector
- ② State LED: Light when normal condition
- ③ Power LED: Light when connect to 24V
- ④ Module name
- ⑤ digital signal output terminal
- ⑥ Extension module interface

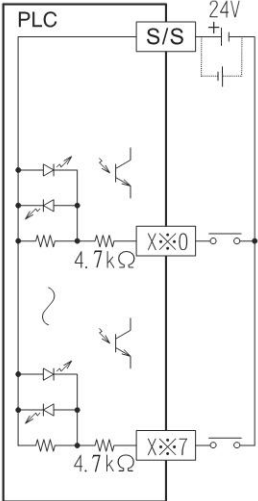
- ⑦ DIN rail mounting slot
- ⑧ DIN rail hook
- ⑨ Mounting holes ($\phi 4.5$)

2.1 Crimp terminations



- Please use crimp terminals as indicated on the graph.
- The tightening torque should be applied 5 to 8 Kg.cm.
- Other terminals should be empty but only wiring terminals mention in this manual.

4. Input specification

Item	DC input
Mode	LX3V-16EX
Output circuit	
Input voltage	DC $\pm 24V \pm 10\%$ *1
Input current	5mA/ DC 24V
Input ON current	More than 3.5mA
Input OFF current	Less than 1.5mA
Input response time	About 10ms
	X0~X7 built-in digital filter
Input signal	Contact or NPN or PNP
Circuit insulation	Photo-coupling
LED	Lights when input is energized

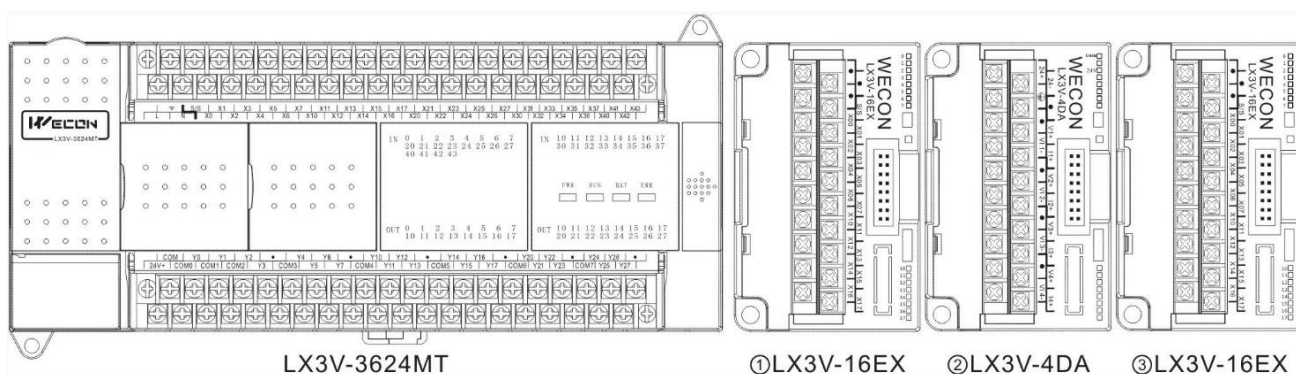
5. Instructions

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:

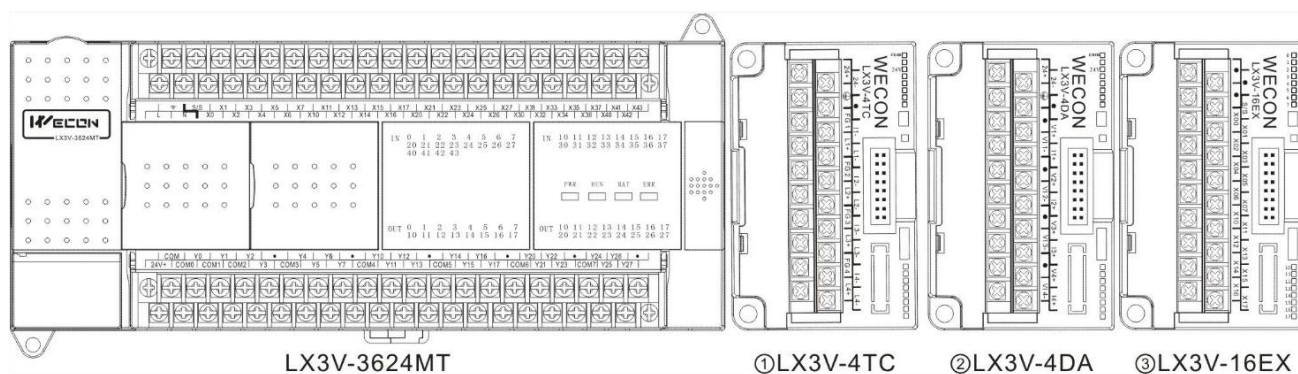
1. If the host is LX3V-1212MR-A and there are 12 input points (X0 to X7, X10 to X13).
2. If you expand an LX3V-16EX module on the host, the X points defined in the module on the host are X20 to X27 and X30 to X37.
3. If you expand multiple I/O input point modules on the host, the I/Os on the module will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

6. Program



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.



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.