



Output expansion module user manual



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General

This manual is applied to LX3V-8EY and LX3V-16EY digital output expansion modules.

1. Naming rule

Naming rule of LX3V I/O output expansion module:

LX3V-16EY

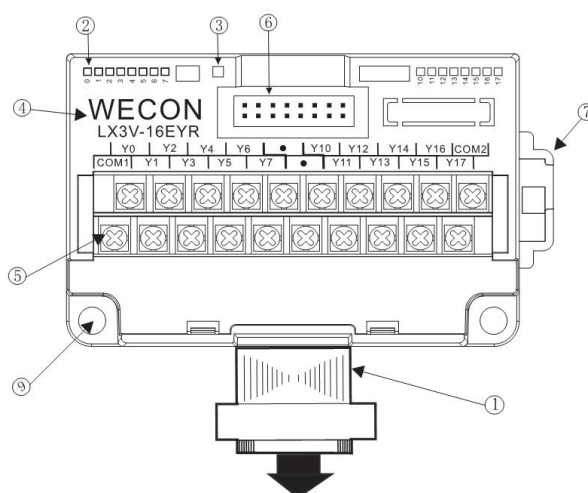
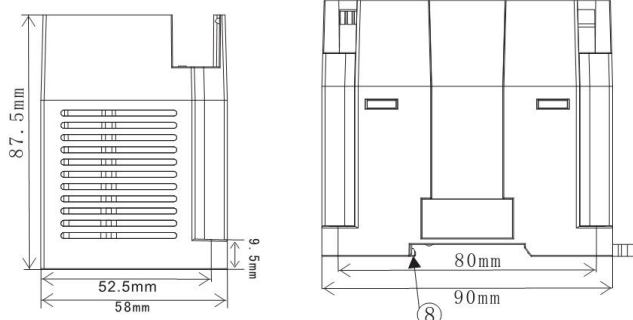
① ② ③ ④ ⑤ ⑥

- ① WECON PLC;
- ② Main module;
- ③ Expansion module;
- ④ Product type, E means expansion;
- ⑤ Expansion output(Y);
- ⑥ T: transistor, R: relay;

2. Dimensions

Weight: Approx 0.3kg (0.661bs)

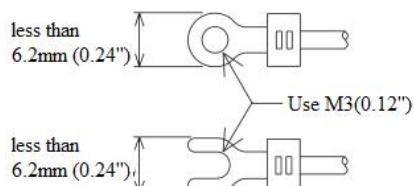
Dimensions: mm



- ① Extension cable and connector
- ② State LED: Light when normal condition
- ③ Power LED: Light when connect to 24V
- ④ Module name

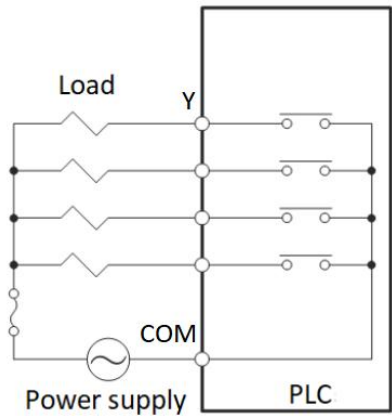
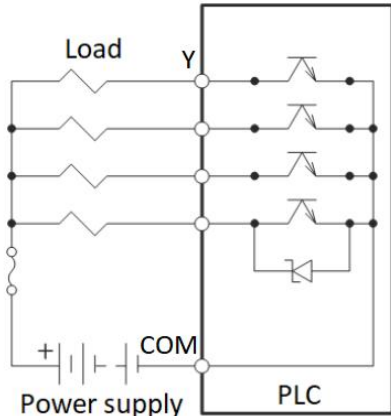
- | | |
|----------------------------------|---------------------------------|
| ⑤ digital signal output terminal | ⑧ DIN rail hook |
| ⑥ Extension module interface | ⑨ Mounting holes ($\phi 4.5$) |
| ⑦ DIN rail mounting slot | |

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.

3. Output specification


Item		Relay output	Transistor output
Mode		LX3V-16EYR	LX3V-16EYT
Output circuit			
Load power supply		Less than AC250V or DC 30V	DC 5V~ 30V
Circuit insulation		Mechanical	Photo-coupling
LED		Light when relay is energized	Light when photo-coupling is energized
Load	Resistance	2A/ point 8A/ four points 8A/ eight points	0.5A/ point 0.8A/ four points 1.6A/ eight points
	Inductance	80VA	12W/DC24V
	Lamp	100W	1.5W/DC24V
Leakage current		--	0.1mA/ DC 30V

Minimum load	--	DC 5V 2mA
OFF->ON	About 10ms	Less than 0.2ms
ON-> OFF	About 10ms	Less than 0.2ms

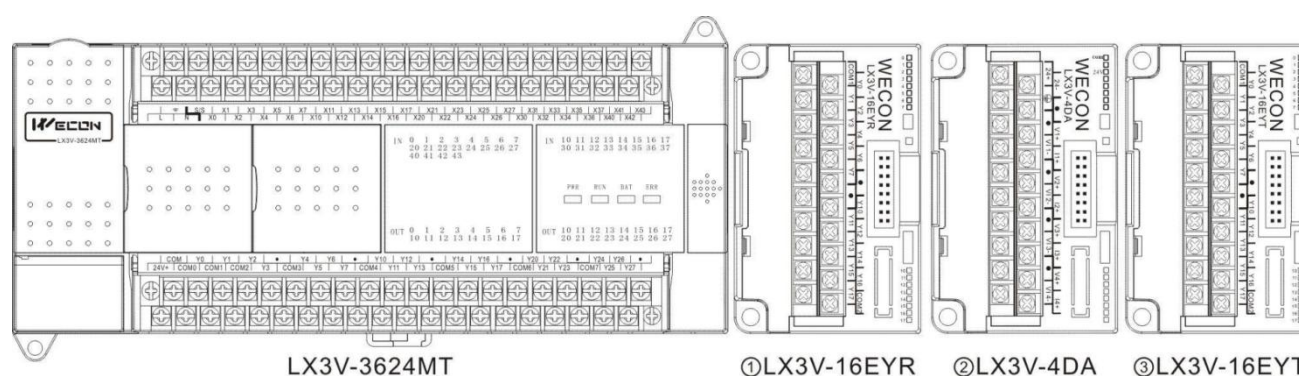
4 Instructions

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

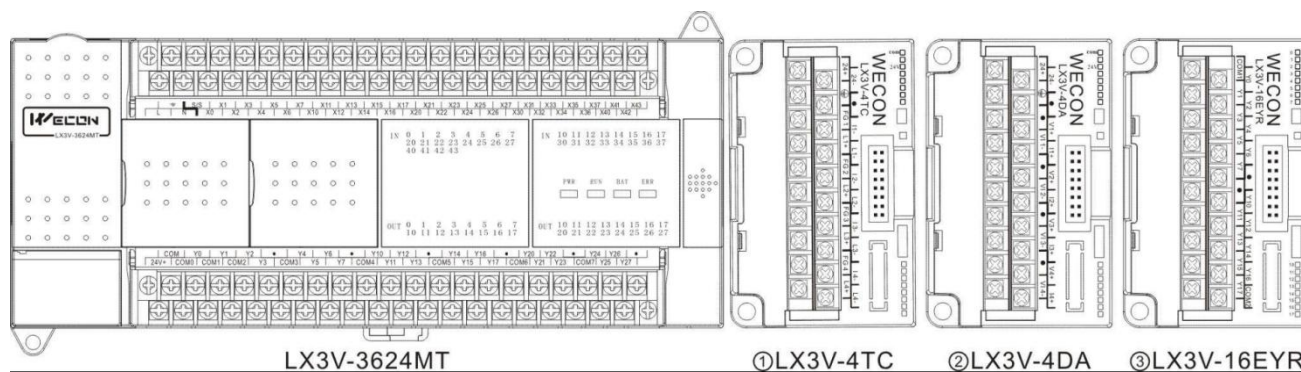
1. If the host is LX3V-1212MR-A and there are 12 output points (Y0 to Y7, Y10 to Y13).
2. If you expand an LX3V-16EY module on the host , the Y points defined in the module on the host computer are X20 to X27 and X30 to X37.
3. If you expand multiple I/O output point modules on the host, the I/Os on the module will be named in the same order.

 **Note:** When adding IO expansion modules to the host, in principle, the number of all output points Y 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



As shown in the example above, it is LX3V-3624MT with two LX3V-16EY modules and one LX3V-4DA module. The host has 24 output points Y: Y0 to Y7, Y10 to Y17, Y20 to Y27. The output point in the module ① called by host are Y30 to Y37 and Y40 to Y43, and the output points in the module ③ called by host are Y50 to Y57 and Y60 to Y67.



As shown in the example above, it is the LX3V-3624MT with one LX3V-16EYR and two LX3V-4DA modules. The host has 24 output points Y: Y0 to YX7, Y10 to Y17, Y20 to Y27. The output point in the module ③ called by host are Y30 to Y37 and Y40 to Y47.

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