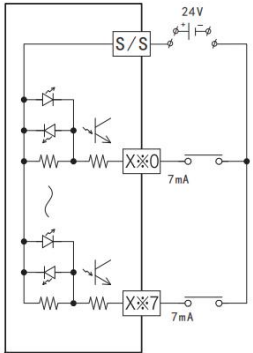
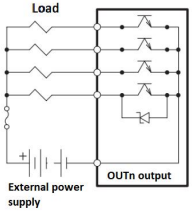
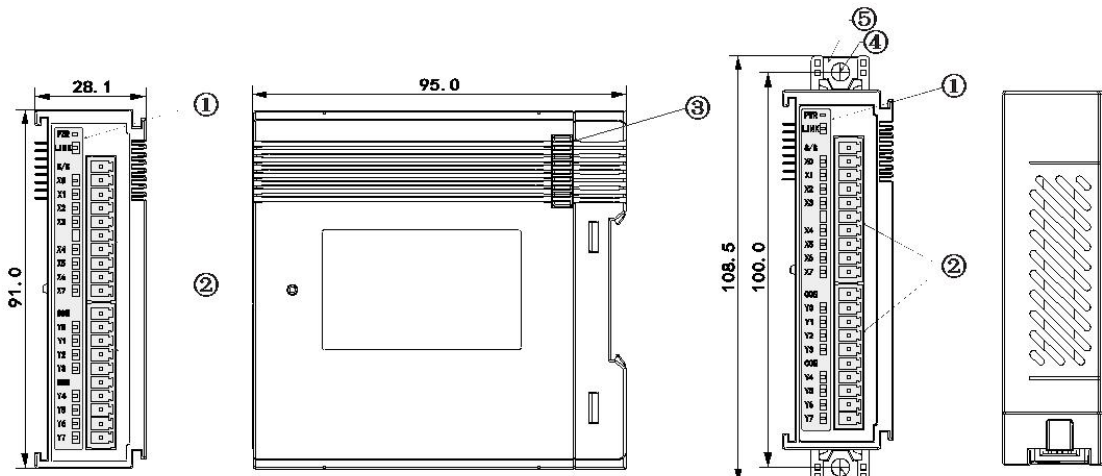


Model	Channels	Functionality	Description
LX6V-0808EXYT	16	8 inputs, 8 transistor outputs	8 channels switch input and 8 channels transistor output. Input supports NPN or PNP. 8 Output supports NPN.
LX6V-16EX	16	16 inputs	16-channel switch input; Input supports NPN or PNP.
LX6V-16EYT	16	16 transistor outputs	16-channel transistor output; Output supports NPN.

## Specification

Item	Digital Input
Input Circuit Composition	 <p>The figure shows NPN connection. If S/S is connected to 24V negative electrode and X is connected to positive electrode, it is PNP connection.</p>
Input Signal Voltage	DC±24V ±10%
Input Signal Current	7mA/DC24V (The input current when inputting standard 24V.)
Input ON Current	Above 3.5mA
Input OFF Current	Below 1.5mA
Input Response Time	About 0.2ms
Input Signal Form	Contact input: supports NPN and PNP input
Circuit Insulation	Transformer isolation
Action Display	When ON is input, LED lights is on.

Item	Transistor Output	
Output Circuit Composition		
External Power Supply	DC5~30V	
Circuit Insulation	Transformer isolation	
Action Display	LED lights is on when running	
Maximum load	Resistance Load	0.4 A/1 point
	Inductive Load	9.6W/DC24V
	Lamp Load	0.9 W/DC24V
Open Circuit Leakage Current	0.1 mA / DC30V	
Minimum Load	—	
Response Time	OFF → ON	About 0.2ms
	ON → OFF	About 0.2ms



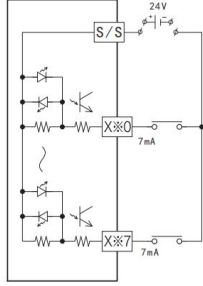
Rail installation size diagram

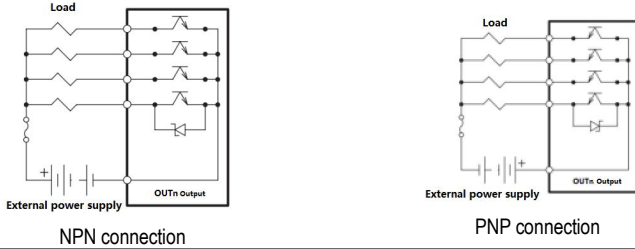
Screw hole installation diagram

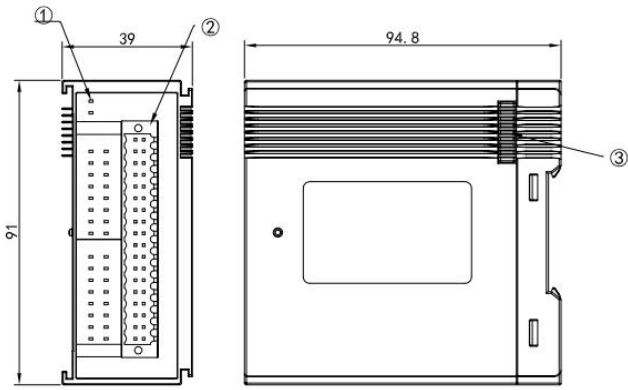
① I/O LED; ② I/O terminal; ③ Expansion module interface; ④ Installation hole: 2 (Φ4.5); ⑤ DIN rail fastener

Model	Channels	Functionality	Description
LX6V-1616EXYT	32	16 inputs, 16 transistor outputs	Support NPN or PNP input, support NPN output.
LX6V-1616EXYP	32	16 inputs, 16 transistor outputs	Support NPN or PNP input, support PNP output.
LX6V-32EX	32	32 inputs	Support NPN or PNP input.
LX6V-32EYT	32	32 transistor outputs	Support NPN output.

## Specification

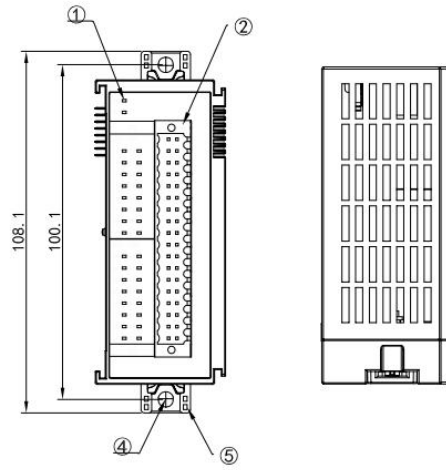
Item	Digital Input
Input Circuit Composition	 <p>NPN connection: S/S connect to 24V;</p> <p>PNP connection: S/S connect to 0V.</p> <p>Note: In the picture is NPN connection.</p>
Input Signal Voltage	DC±24V±10%
Input Signal Current	7mA/DC24V (The input current when inputting standard 24V)
Input ON Current	3.5mA above
Input OFF Current	Below 1.5mA
Input Response Time	Approx. 0.2ms
Input Signal Form	Contact input, support NPN, PNP input.
Circuit Insulation	Transformer or optocoupler isolation.
Action Display	When inputting ON, LED lights up.

Item	Transistor Output	
Output Circuit Composition	 <p>NPN connection</p> <p>PNP connection</p>	
External Power Supply	DC 5 to 30V	
Circuit Insulation	Transformer isolation	
Action Display	LED lights up when driving	
Maximum load	Resistance Load	0.25A/1 point, 8A/Module
	Inductive Load	6W/DC24V
	Lamp Load	0.75W/DC24V
Output Derating	When working at 55°C, the output current of ON at the same time is derated to 50% (that is, the output current of 32 channels does not exceed 4A)	
Open Circuit Leakage Current	0.1mA/DC30V	
Minimum Load	--	
Response	OFF→ON	Approx. 0.2ms
Time	ON→OFF	Approx. 0.2ms



**Rail Installation dimension diagram**

① I/O LED; ② I/O Terminal; ③ Expansion module interface;



**Screw hole installation dimension diagram**

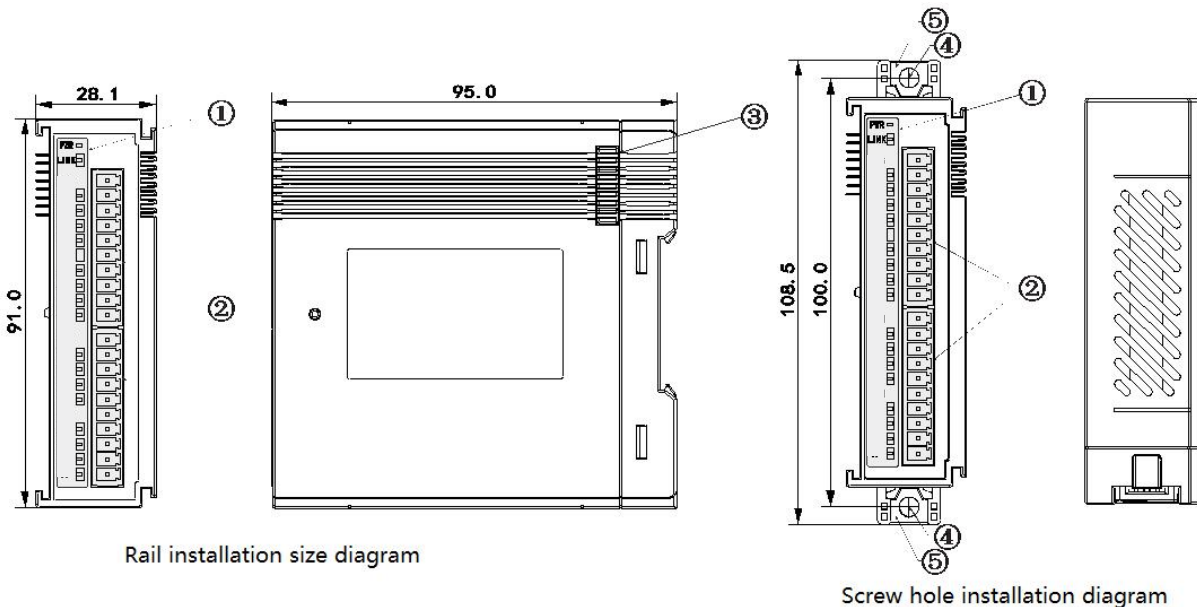
④ Mounting hole\*2 ( $\Phi=4.5$ ); ⑤ DIN rail fastener

Model	Channels	Functionality	Description
LX6V-4AD	4	4 inputs	4-channel analog input module.
LX6V-4DA	4	4 outputs	4-channel analog output module.

## Specification

Item	Analog Input
<b>Input Circuit Composition</b>	
<b>Input Mode</b>	Voltage/current
<b>Input Channel</b>	4
<b>Resolution</b>	1/16384 (14bit)
<b>Voltage Input Range</b>	-10V to 10V
<b>Voltage Input Impedance</b>	190kΩ
<b>Current Input Range</b>	4mA-20mA, -20mA-20mA
<b>Current Input Impedance</b>	250Ω
<b>Comprehensive Precision</b>	±1%
<b>Conversion Speed</b>	1ms
<b>Power Supply</b>	Interface power supply, DC24V±10%, 55mA

Item	Analog Output
<b>Output Circuit Composition</b>	
<b>Output Mode</b>	Voltage/current
<b>Output Channel</b>	4
<b>Resolution</b>	1/20,000, hardware can meet 16bit resolution
<b>Voltage Output Range</b>	-10V-10V
<b>Voltage Output Load</b>	≥2KΩ
<b>Voltage Output Diagnosis</b>	Support non-zero voltage output short-circuit detection with about 14mA overcurrent protection
<b>Current Output Range</b>	0-20mA, 4-20mA
<b>Current Output Load</b>	≤ 500Ω
<b>Current output Diagnosis</b>	Support non-zero current output open circuit detection
<b>Comprehensive Precision</b>	±1%
<b>Conversion Speed</b>	Approximately 1ms
<b>Power Supply</b>	Interface power supply, DC24V±10%, 125mA



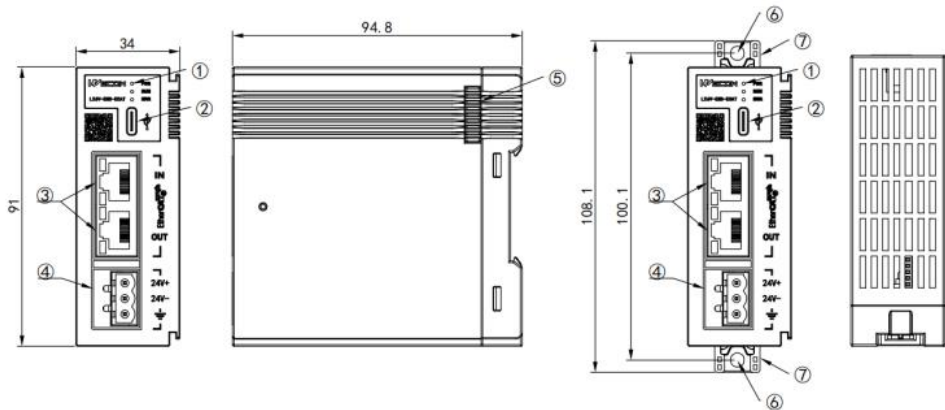
① I/O LED; ② I/O terminal; ③ Expansion module interface; ④ Installation hole: 2 (Φ4.5) ; ⑤ DIN rail fastener

LX6V-EMB-ECAT communication modules support EtherCAT communication, with automatic scanning function, and adapt to our company and third-party EtherCAT master station equipment: PLC, PCB, etc. Features:

- Compact structure and convenient installation;
- Response at microseconds of high-speed bus;
- The maximum number of expansion modules is 32, and the total power of modules  $\leq 48W$ .

## Specification

Item	LX6V-EMB-ECAT
Rated Input Voltage	DV 24V $\pm$ 10%@100mA (excluding expansion module)
Communication Interface	RJ45 $\times$ 2, EtherCAT communication protocol with performance 100Mbps; IN interface is EtherCAT input port; OUT interface is an EtherCAT output port, which is used for connecting the subsequent EtherCAT slave;
Transmission Distance	Length of communication line between two nodes $\leq$ 100m
Transmission Medium	Category 5E (cat 5e) cable or above
Single AP Process Data	Maximum input and output 1024 bytes
Synchronous Period	Minimum 125 $\mu$ s
Allowable Instantaneous Power Outage Time	10ms
Impulse Current	$\leq$ 45A (with maximum module load)
Power Protection	Anti-reverse connection protection, overcurrent protection and surge absorption
Maximum Number of Expansion Modules	16
Firmware Upgrade	Support



Serial Number	Interface	Function Definition			
1	Signal Indicator	PWR	Power indicator	Off	No power supply
				On	When the power supply is on
		RUN	Running indicator	Off	ECT module is in INIT status
				Flashing (white)	ECT module is in Pre-Op status
				Single flash (white)	ECT module is in Safe-Op status
		ERR	Communication fault indicator	Normally on (white)	ECT module is in Operational status
				Off	EtherCAT communication is in normal status
				Flashing (Red)	EtherCAT communication receives status transition instructions that cannot be executed
				Single flash (red)	Network disconnection, ECT module synchronization error
		Normally on (Red)	Watchdog error occurred in EtherCAT communication		
2	USB Communication Interface (Type-C)	Used for single board software upgrade			
3	EtherCAT Interface	IN: EtherCAT input port OUT: EtherCAT output interface			
4	24V power Input Interface	Module power input terminal			
5	Expansion Module Interface	Connect LX6V Series expansion module			
6	Mounting Hole	2 places, $\phi 4.5$			
7	DIN Rail Fastener				