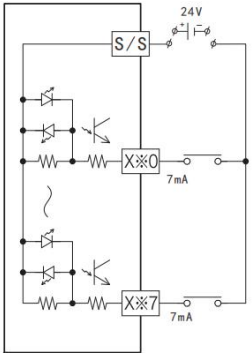
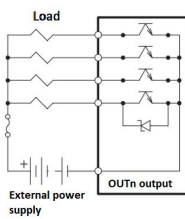
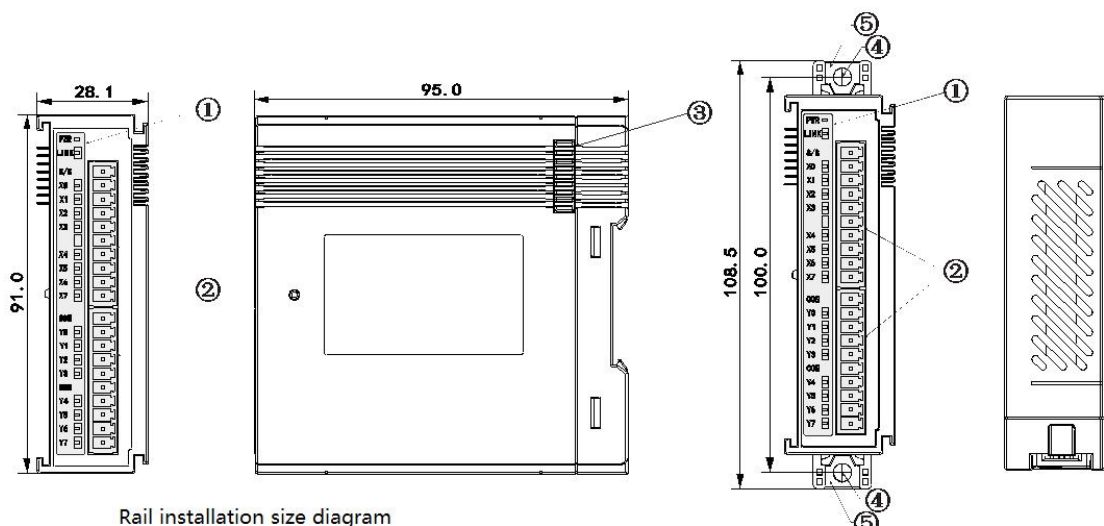


Model	Channels	Functionality	Description
LX6V-0808EXYT	16	8 inputs, 8 transistor outputs	8 channels switch input and 8 channels transistor output. Input supports NPN or PNP. 8 Output supports NPN.
LX6V-16EX	16	16 inputs	16-channel switch input; Input supports NPN or PNP.
LX6V-16EYT	16	16 transistor outputs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

Specification

Item	Digital Input
Input Circuit Composition	 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.
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



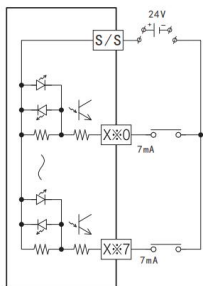
Rail installation size diagram

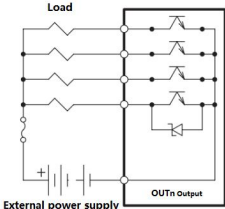
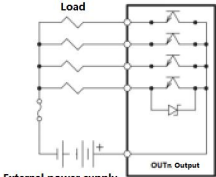
Screw hole installation diagram

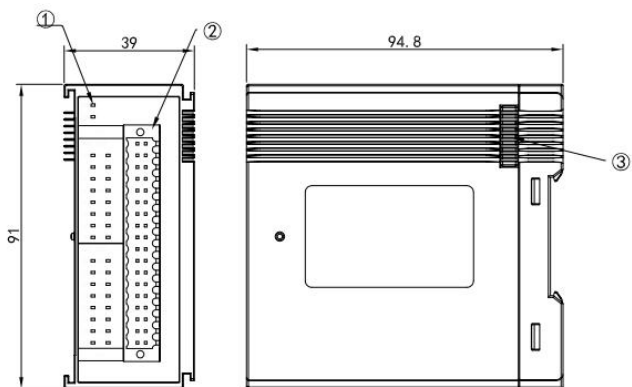
① I/O LED; ② I/O terminal; ③ Expansion module interface; ④ Installation hole: 2 (Φ4.5); ⑤ DIN rail fastener

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

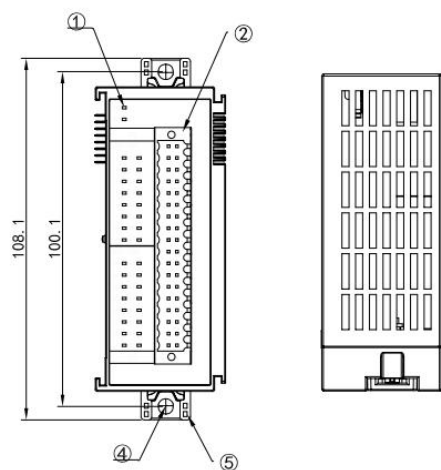
Item	Digital Input
Input Circuit Composition	 NPN connection: S/S connect to 24V; PNP connection: S/S connect to 0V. Note: In the picture is NPN connection.
Input Signal Voltage	DC±24V±10%
Input Signal Current	7mA/DC24V (The input current when inputting standard 24V)
Input ON Current	3.5mA above
Input 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		 NPN connection	 PNP connection
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

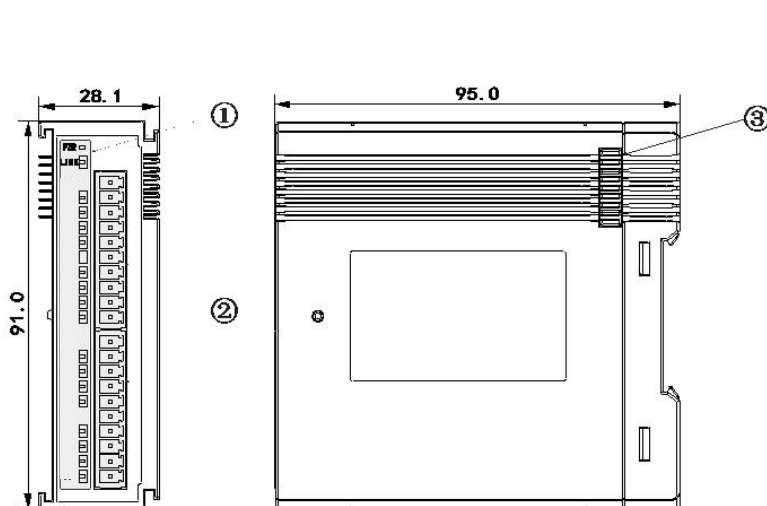
④ Mounting hole*2 ($\Phi=4.5$); ⑤ DIN rail fastener

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

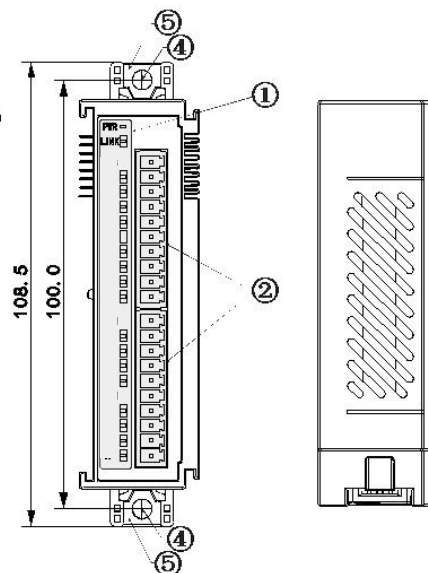
Specification

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

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



Rail installation size diagram



Screw hole installation diagram

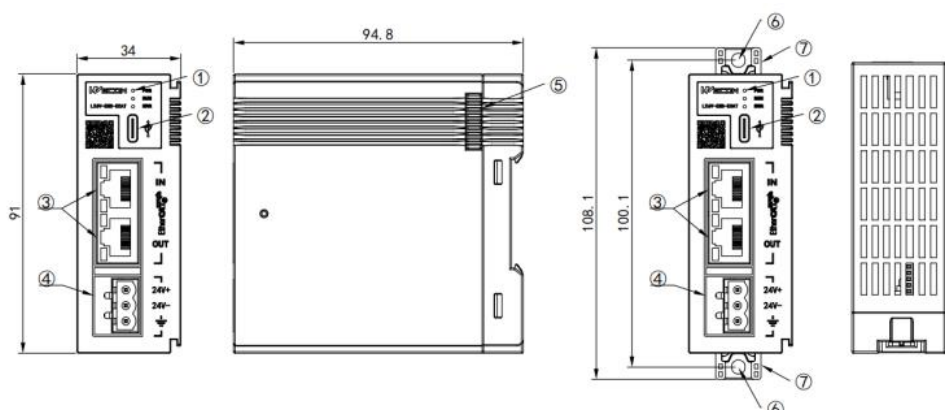
① I/O LED; ② I/O terminal; ③ Expansion module interface; ④ Installation hole: 2 (Φ4.5) ; ⑤ DIN rail fastener

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	LX6V-EMC-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 μs	
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	32
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
				Normally on (white)	ECT module is in Operational status
		ERR	Communication fault indicator	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, φ4.5			
7	DIN Rail Fastener				