Manuals+ — User Manuals Simplified.

LS ELECTRIC XBC-DR32 Programmable Logic Controller Instruction Manual

Contents

LS ELECTRIC XBC-DR32 Programmable Logic Controller

This installation guide provides simple function information of PLC control. Please read carefully this data sheet and manuals before using products. Especially read safety precautions and handle the products properly.

Safety Precautions

Meaning of warning and caution inscription

WARNING
WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury

CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices

WARNING

1. Do not contact the terminals while the power is applied.

2. Protect the product from being gone into by foreign metallic matter.

3. Do not manipulate the battery(charge, disassemble, hitting, short, soldering)

A CAUTION

1. Be sure to check the rated voltage and terminal arrangement before wiring
2. When wiring, tighten the screw of terminal block with the specified torque range
3. Do not install the flammable things on surroundings
4. Do not use the PLC in the environment of direct vibration
5. Except expert service staff, Do not disassemble or fix or modify the product
6. Use the PLC in an environment that meets the general specifications contained in this datasheet.
7. Be sure that external load does not exceed the rating of output product.
8. When disposing of PLC and battery, treat it as industrial waste.

Operating Environment

To install, observe the below conditions.

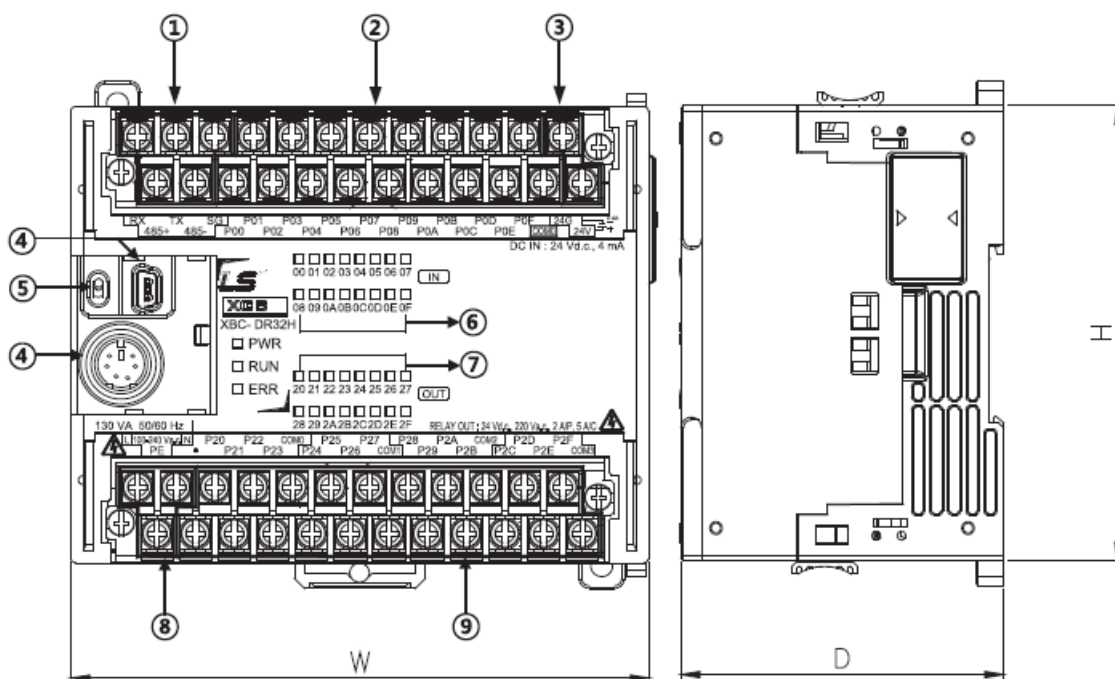| Item	Specification				Standard
Ambient temp.	0 – 55°C				
Storage temp.	-25 – 70°C				
Ambient humidity	5 – 95%RH, non-condensing				
Storage humidity	5 – 95%RH, non-condensing				
Vibration Resistance	Occasional vibration				IEC 61131-2
	Frequency	Acceleration	Amplitude	Times	
	5:5f<8.4Hz		3.5mm	10 times in each direction for **X, Y,Z**	
	8.4:5f:5150Hz	9.8m/s'(1g)			
	Continuous vibration				
	Frequency	Frequency	Amplitude		
	5:5f<8.4Hz		1.75mm		
	8.4:5f:5150Hz	4.9mg(0.5g)			

Performance specifications

This is Performance specification of XGB. For more details, refer to related manual.

Operation method	Reiterative operation, fixed cycle operation, Interrupt operation, constant period scan
1/0 control method	Scan synchronous batch processing (refresh method) Direct method by instruction
Operation speed	Basic instruction: 60ns/step
Program memory capacity	XBC:15Kstep, XEC: 250KB
Max expansion slot	Main + Expansion 10 Slot(expansion slot)
Operating mode	RUN, STOP, DEBUG
Self-diagnosis	Delay of operation, abnormal memory, abnormal 1/0
Program port	USB(1Ch), RS-232C(1Ch)
Data keeping method at power failure	Setting latch(retain) area at basic parameter
Built-in function	Cnet(RS-232C,RS-485), PIO, High speed counter, RTC

Parts name and Dimension (mm)

This is front part of the CPU. Refer to each name when driving the system. For more information, refer to user manual.

1. CD Built-in Communication Terminal block

2. CD Input terminal block

3. 24V Output(Sub-power, Not applied to /DC power unit)

4. RUN/STOP mode switch

5. Output status LED

6. Input status LED
7. Power terminal block
8. Output terminal block

Dimension(mm)

Product	w	D	H
XB(E)C-DR(N)32H(/DC)	114	64	90
XB(E)C-DR(N)64H(/DC)	180	64	90

Applicable Sup port Software

For system configuration, the following version is necessary.

1. XGS000 Software : V4.71 or above
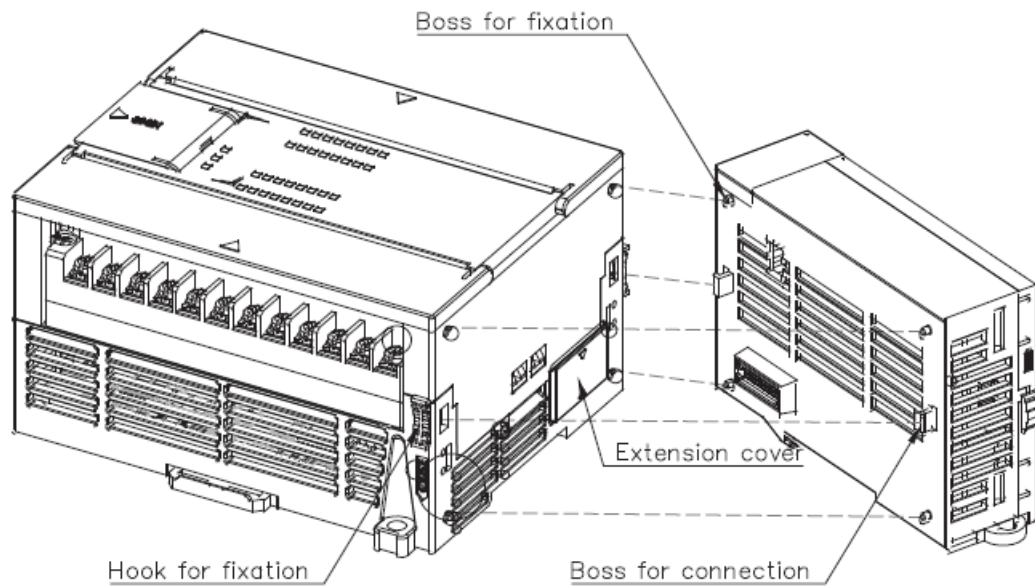2. XBO-M2MB : V1 .60 or above

Accessories and Cable Specifications

Check the accessory. (Order the cable if need)

1. PMC-31 OS : RS-232 connecting (download) cable.
2. USB-301A : USB connecting(download) cable.

Installing / Removing Modules

Here describes the method to installing removing product.

1. Installing module
    1. Eliminate the Extension Cover at the product.
    2. Push the product and connect it in agreement with Hook For Fixation of four edges and Hook For Connection at the bottom.
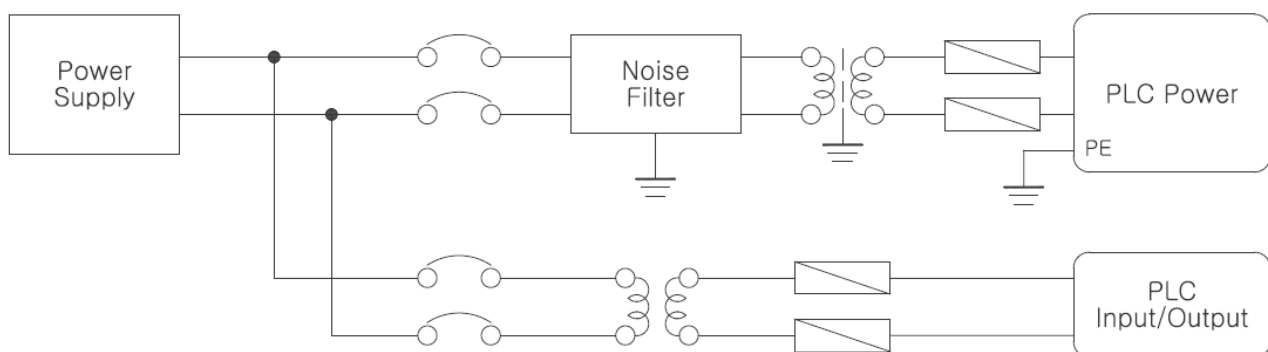   3. After connection, push down the Hook For Fixation and fix it completely.

2. Removing module
    1. Push up the Hook For removing, and then installing the product with two hands. (Do not remove the product by force)

Wiring

Power wiring

1. In case that the power change is larger than the range of standard, connect constant voltage transformer
2. Connect the power having the small noise between cables or between earths. In case of having lots of noise, connect the isolating transformer or noise filter.
3. power for PLC, 1/0 device and other machines should be separate.
4. Use the dedicated earth if possible. In case of Earth works, use 3 class earth (earth resistance 100 0 or less) and Use more than 2 mm2 cable for earth.
    If the abnormal operation is found according to the earth, separate the earth

Q Warranty

- Warranty period

    18 months after the production date.

- Scope of Warranty

    18- month warranty is available except:

- The troubles caused by improper condition, environment or treatment except the instructions of LS ELECTRIC.
- The troubles caused by external devices
- The troubles caused by remodeling or repairing based on the user's own discretion.
- The troubles caused by improper usage of the product
- The troubles caused by the reason which exceeded the expectation from science and technology level when LS ELECTRIC manufactured the product
- The troubles caused by natural disaster

- Change in specifications

  Product specifications are subject to change without notice due to continuous product development and improvement.

LS ELECTRIC Co., Ltd. **www.ls-electric.com**
10310001847 V1.0 (2022.08)

- E-mail: **automation@ls-electric.com**
- Headquarter/Seoul Office Tel: 82-2-2034-4033,4888,4703
- LS ELECTRIC Shanghai Office (China) Tel: 86-21-5237-9977
- LS ELECTRIC (Wuxi) Co., Ltd. (Wuxi, China) Tel: 86-510-6851-6666
- LS-ELECTRIC Vietnam Co., Ltd. (Hanoi, Vietnam) Tel: 84-93-631-4099
- LS ELECTRIC Middle East FZE (Dubai, U.A.E.) Tel: 971-4-886-5360
- LS ELECTRIC Europe B.V. (Hoofddorf, Netherlands) Tel: 31-20-654-1424
- LS ELECTRIC Japan Co., Ltd. (Tokyo, Japan) Tel: 81-3-6268-8241
- LS ELECTRIC America Inc. (Chicago, USA) Tel: 1-800-891-2941
- Factory: 56, Samseong 4-gil, Mokcheon-eup, Dongnam-gu, Cheonan-si, Chungcheongnamdo, 31226, Korea

Documents / Resources

LS ELECTRIC XBC-DR32 Programmable Logic Controller [pdf] Instruction Manual
XBC-DR32, XBC-DR32 Programmable Logic Controller, Programmable Logic Controller, Logic Controller, Controller

Manuals+,