



LS XGL-PSRA Programmable Logic Controller Installation Guide

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Installation Guide

C/N: 10310001113



Programmable Logic Controller Installation Guide
XGT Pnet Slave **XGL-PSRA,PSEA**



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

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Safety Precautions

■ Meaning of warning and caution label



WARNING

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



WARNING

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. Be sure there are no foreign metallic matters.
3. Do not manipulate the battery(charge, disassemble, hitting, short, soldering).



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 module.
8. When disposing of PLC and battery, treat it as industrial waste.
9. I/O signal or communication line shall be wired at least 100mm away from a highvoltage cable or power line.

Operating Environment

- To install, observe the below conditions.

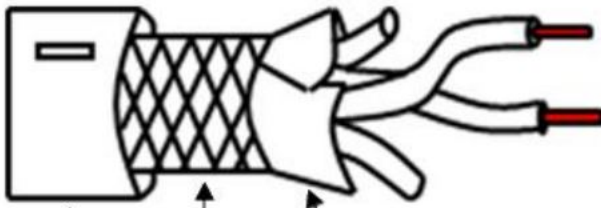
No	Item	Specification			Standard	
1	Ambient temp.	0 ~ 55℃			-	
2	Storage temp.	-25 ~ 70℃			-	
3	Ambient humidity	5 ~ 95%RH, non-condensing			-	
4	Storage humidity	5 ~ 95%RH, non-condensing			-	
5	Vibration Resistance	Occasional vibration			-	IEC 61131-2
		Frequency	Acceleration			
		5≤f<8.4Hz	-	3.5mm	10 times in each direction for X, Y, Z	
		8.4≤f≤150Hz	9.8m/s²(1g)	-		
		Continuous vibration				
		Frequency	Frequency	Frequency		
		5≤f<8.4Hz	-	1.75mm		
		8.4≤f≤150Hz	4.9m/s²(0.5g)	-		

Applicable Support Software

- For system configuration, the following version is necessary.
 - 1) XGI CPU : V3.9 or above
 - 2) XGK CPU : V4.5 or above
 - 3) XGR CPU : V2.6 or above
 - 4) XG5000 Software : V4.0 or above

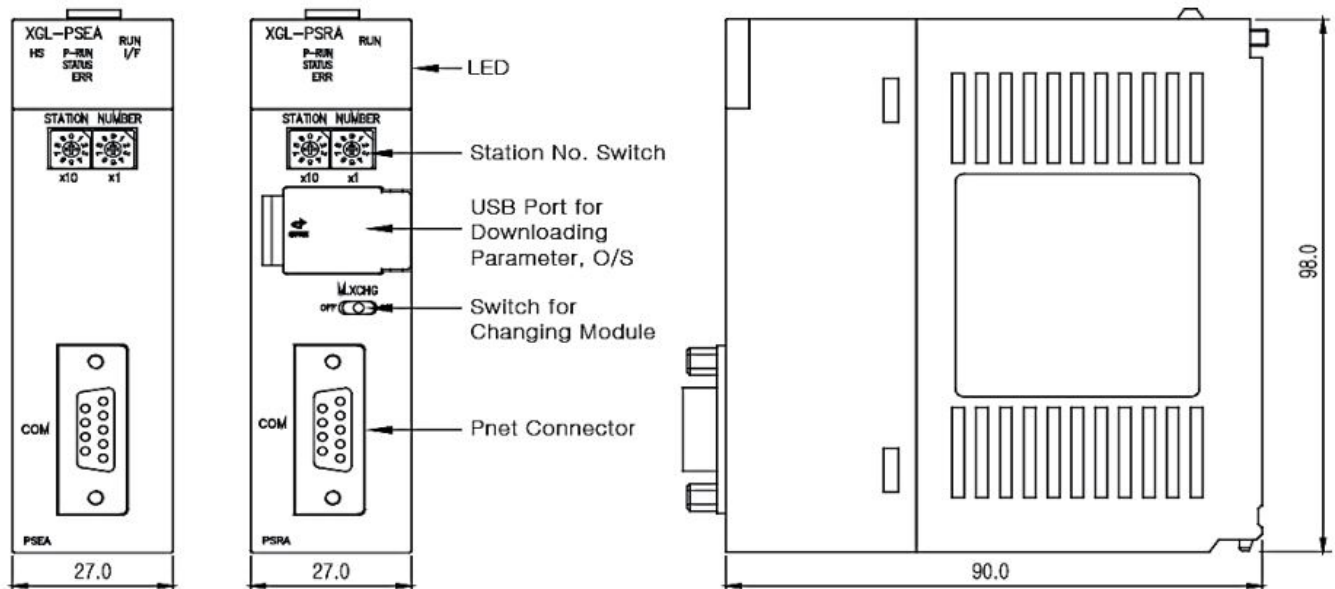
Accessories and Cable Specifications

- Check Profibus Connector contained in the box
 - 1) Usage : Profibus Communication Connector
 - 2) Item : GPL-CON
- When using Pnet communication, shielded twisted pair cable shall be used with consideration of communication distance and speed.
 - 1) Manufacturer : Belden or the maker of equivalent material specification below
 - 2) Cable Specification

Classification	Description	
AWG	22	
Type	BC (Bare Copper)	
Insulation	PE (Polyethylene)	
Diameter(inch)	0.035	
Shield	Aluminum Foil-Polyester, Tape/Braid Shield	
Capacitance(pF/ft)	8.5	
Characteristic impedance(Ω)	150Ω	

Parts Name and Dimension (mm)

- This is front part of the Module. Refer to each name when operating the system. For more information, refer to user's manual.

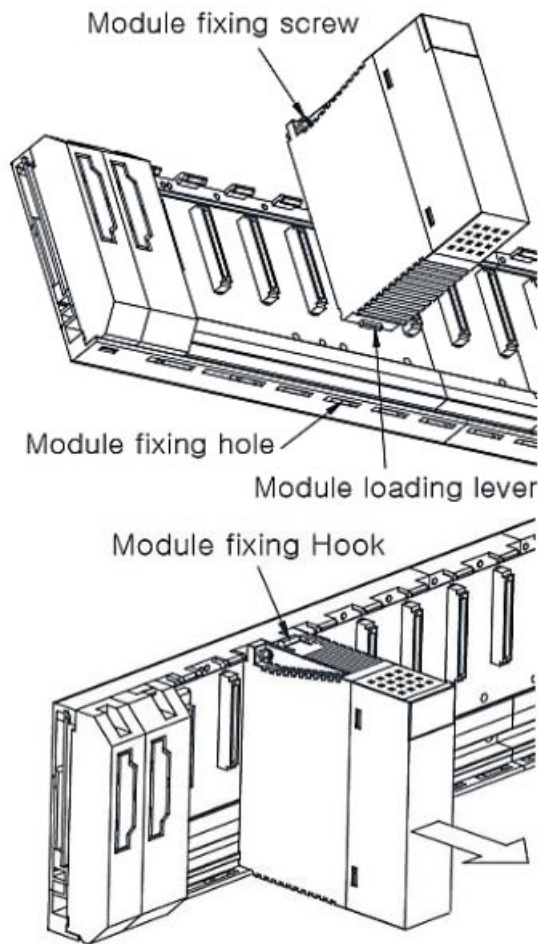


■ LED details

Name	Status	Description
RUN	On	Module is normal (System O/S is normal)
	Off	O/S is not operating (O/S operating error because of H/W error)
P-RUN	On	Pnet communication is normal
	Off	Not connected with master or communication with master is error
STATUS	On	Communication cable is connected with master
	Off	Communication cable isn't connected with master Communication cable is defective
I/F	Blink	Interface with CPU is normal
	Off	Interface with CPU is abnormal
HS (Only PSEA)	On	HS link parameter is normal and HS link is "enable" status
	Off	HS link parameter is abnormal and HS link is "disenable" status
ERR	Off	Normal status
	On	Communication module is not operating

Installing / Removing Modules

- Here describes the method to attach each module to the base or remove it.



1. Installing module

- ① Insert a fixed projection of the lower part Of PLC into the module fixed hole of base
- ② Slide the upper part of module to fix to the base, and then fit it to the base by using the module fixed screw.
- ③ Pull the upper part of module to check if it is installed to the base completely.

2. Removing module

- ① Loosen the fixed screws of the upper part of module from the base
- ② By pressing the hook, pull the upper part of module from the axis of the lower part of module
- ③ By lifting the module upward, remove the loading lever of module from the fixing hole

Wiring

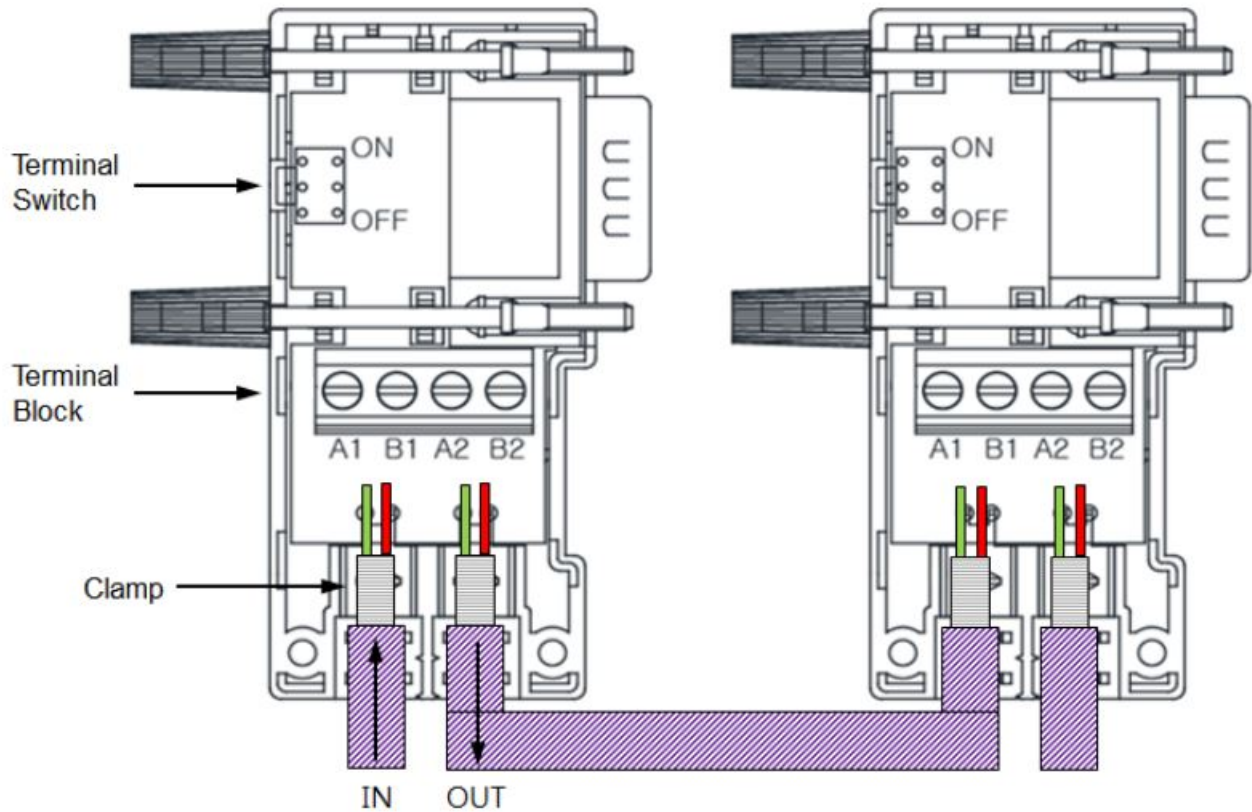
- Connector structure and wiring method
 - 1) Input line: green line is connected to A1, red line is connected to B1
 - 2) Output line: green line is connected to A2, red line is connected to B2
 - 3) Connect shield to clamp of shield
 - 4) In case of installing the connector at terminal, install the cable at A1, B1
 - 5) For more information about wiring, refer to user manual.

Warranty

- Warranty period 18 months after the production date.
- Scope of Warranty 18-month warranty is available except:
 - 1) The troubles caused by improper condition, environment or treatment except the instructions of LS

ELECTRIC.

- 2) The troubles caused by external devices
- 3) The troubles caused by remodeling or repairing based on the user's own discretion.
- 4) The troubles caused by improper usage of the product
- 5) The troubles caused by the reason which exceeded the expectation from science and technology level when LS ELECTRIC manufactured the product
- 6) The troubles caused by natural disaster



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

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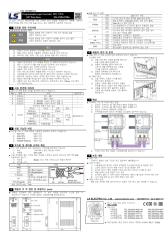


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- LS ELECTRIC Europe B.V. (Hoofddorf, Netherlands) Tel: 31-20-654-1424
 - LS ELECTRIC Japan Co., Ltd. (Tokyo, Japan) Tel: 81-3-6268-8241
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Documents / Resources

	<p>LS XGL-PSRA Programmable Logic Controller [pdf] Installation Guide XGL-PSRA, PSEA, XGL-PSRA Programmable Logic Controller, Programmable Logic Controller , Controller, Logic Controller</p>
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References

- [Electric | The Largest Consumer Energy & Renewables Platform](#)
- [LS ELECTRIC Co., Ltd.](#)