

LS GSL-D22C Programmable Logic Controller Installation Guide

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

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



- 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).



- 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 A/S 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.

N o	Item	Specification						
1	Ambient te mp.	0 ~ 55°C						
2	Storage te mp.	-25 ~ 70°C						
3	Ambient hu midity	5 ~ 95%RH, non-condensing						
4	Storage hu midity	5 ~ 95%RH, non-condensing						
	Vibration R esistance	Occasional vibration –						
		Freque ncy	Acceleration					
		5≤f<8.4	_ 3.5mm					
5		8.4≤f≤1 50	9.8 (1g) –				IEC 61	
		Continuous vibration es in each						
		Freque ncy	Freque ncy	ncv Frequency on fo		directi on for X, Y,		
		5≤f<8.4	_ 1.75mm					
		8.4≤f≤1 50	4.9 (0.5 g)	_				

Accessories and Cable Specifications

· Check Modbus connector contained in the box

1. Usage: Modbus Communication Connector

2. Item: GSL-CON

 When using RS-422 or RS-485 communication channel, twisted pair cable shall be used with consideration of communication distance and speed.

1. Item: Low Capacitance LAN Interface Cable

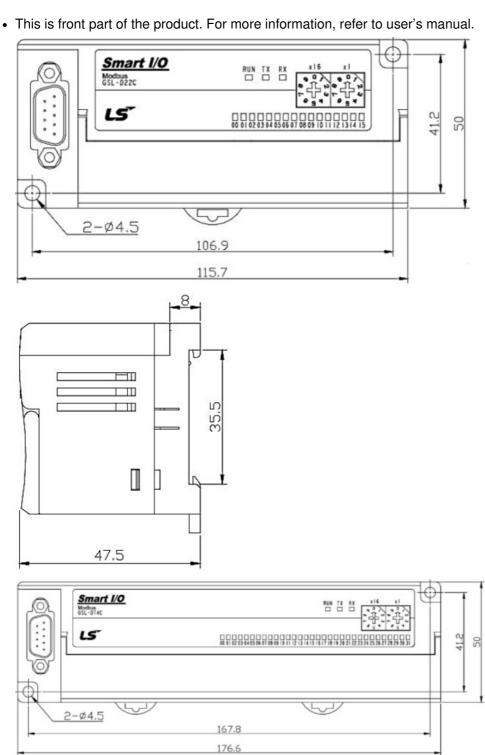
2. Type: LIREV-AMESB

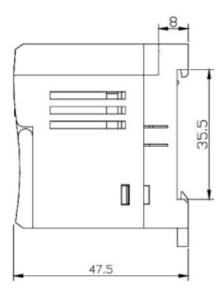
3. Size: 2P X 22AWG(D/0.254 TA)4. Manufacturer: LS Cable Co., Ltd

5. Electrical characteristics

Items	Unit	Characteristics	Condition
Conductor Resistance	Ω/km	59 or less	25°C
Withstanding Voltage (DC)	V/1min	500V, 1Min.	In air
Insulation Resistance	MΩ-km	1,000 or more	25°C
Capacity	Pf/M	45 or less	1kHz
Characteristic Impedance	Ω	120±12	10MHz

Dimension (mm)





Performance Specifications

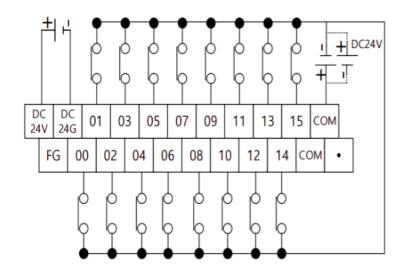
• This is performance specifications of the product. For more information, refer to user manual.

Item	GSL-D2xC	GSL-DT4C/C1	GSL- TRxC/C1	GSL-RY2C			
Baud rate	2,400 ~ 38,400 bps						
Protocol	Modbus RTU						
Rated Input C urrent	Ę	ōmA	-	-			
Rated load voltage	-	DC2	44V	DC24V/AC220V,2A/Point, 5A/COM			
Max load	-	0.5A/Point	, 3A/COM	DC 110V, AC 250V1,200ti mes/hour			
ON Voltage		Minimum load voltage/current DC 5V/1m A					
OFF Voltage							

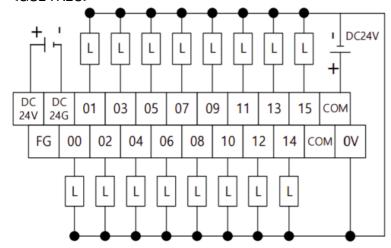
Terminal Block Layout for I/O Wiring

• This is terminal block layout for I/O wiring. Refer to each name when driving the system. For more information, refer to user manual.

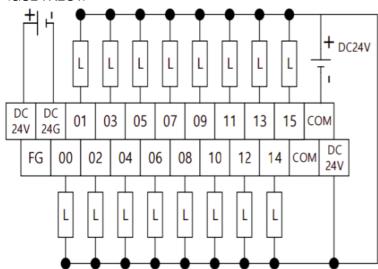
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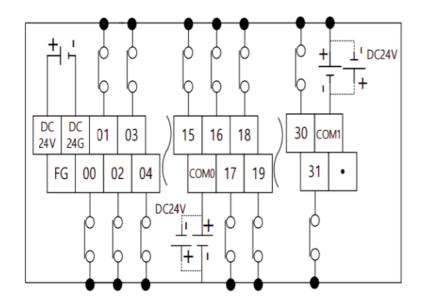
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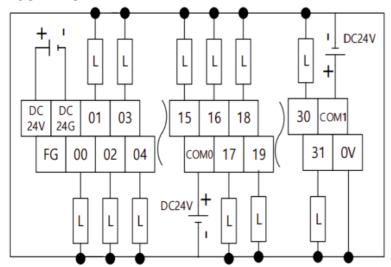
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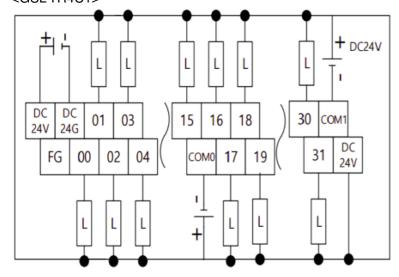
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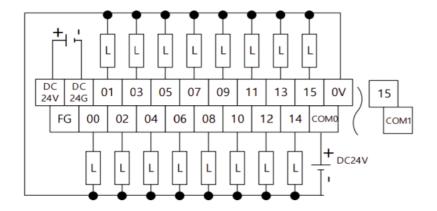
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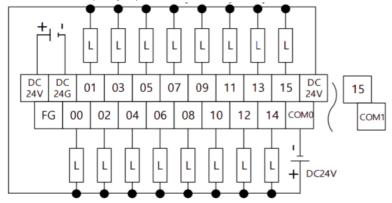
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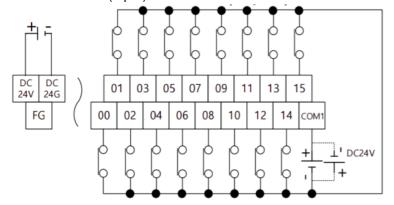
<GSL-DT4C (Output)>



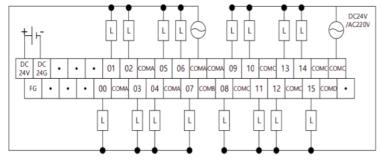
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<GSL-DT4C/C1 (Input)>

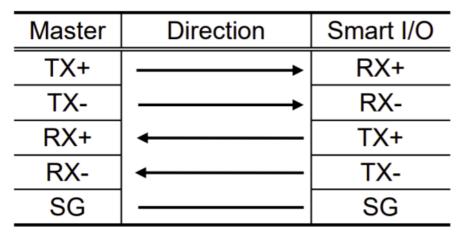


<GSL-RY2C>

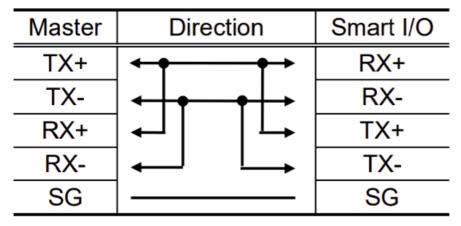


Wiring

Wiring for Communication
<RS-422 Connection>



<RS-485 Connection>



1. For more information about wiring, refer to user manual.

Warranty

- The warranty period is 36 months from the date of manufacture.
- The initial diagnosis of faults should be conducted by the user. However, upon request, LS ELECTRIC or its representative(s) can undertake this task for a fee. If the cause of the fault is found to be the responsibility of LS ELECTRIC, this service will be free of charge.
- Exclusions from warranty
 - 1. Replacement of consumable and life-limited parts (e.g. relays, fuses, capacitors, batteries, LCDs, etc.)
 - 2. Failures or damages caused by improper conditions or handling outside those specified in the user manual
 - 3. Failures caused by external factors unrelated to the product
 - 4. Failures caused by modifications without LS ELECTRIC's consent
 - 5. Use of the product in unintended ways
 - 6. Failures that cannot be predicted/solved by current scientific technology at the time of manufacture
 - 7. Failures due to external factors such as fire, abnormal voltage, or natural disasters
 - 8. Other cases for which LS ELECTRIC is not responsible
- For detailed warranty information, please refer to the user's manual.
- The content of the installation guide is subject to change without notice for product performance improvement.

Symbols



QR Code



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<u>LS GSL-D22C Programmable Logic Controller</u> [pdf] Installation Guide GSL-D22C Programmable Logic Controller, GSL-D22C, Programmable Logic Controller, Logic Controller, Controller

References

• User Manual

Manuals+, Privacy Policy

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