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# **FnIO G – Series :**

## ***GT-2348***

***GT-2348 (8 Points, Source Output Terminal, 24Vdc/0.5A)***

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Specification

History

Rev	Pages	Remarks	Date	Editor
1.00			2022/05/06	Joonho, Park
1.01	5	Modify Image	2022/07/15	Chiwon, Seo
1.02	5	Change Output Delay Time and Leackage current	2022/09/30	Chiwon, Seo
1.03	6	Change Diagram	2023/04/03	Soyeong, Park
1.04	4,8	Edit Certification / Change Diagram, Status LED	2023/08/08	Suna, Hwang
1.05	1,5	Edit Module Description, Specification	2025/11/27	Suna, Hwang

# Specification

## 1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operation Temperature	-40°C ~60°C
UL Temperature	-20°C ~60°C
Storage Temperature	-40°C ~85°C
Relative Humidity	5%~90% Non-condensing
Mounting	DIN Rail
General specification	
Shock Operating	IEC 60068-2-27
Vibration Resistance	Based on IEC 60068-2-6, 4g
Industrial Emissions	EN61000-6-4/All : 2011
Industrial Immunity	EN 61000-6-2 : 2019
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL, UKCA

# Specification

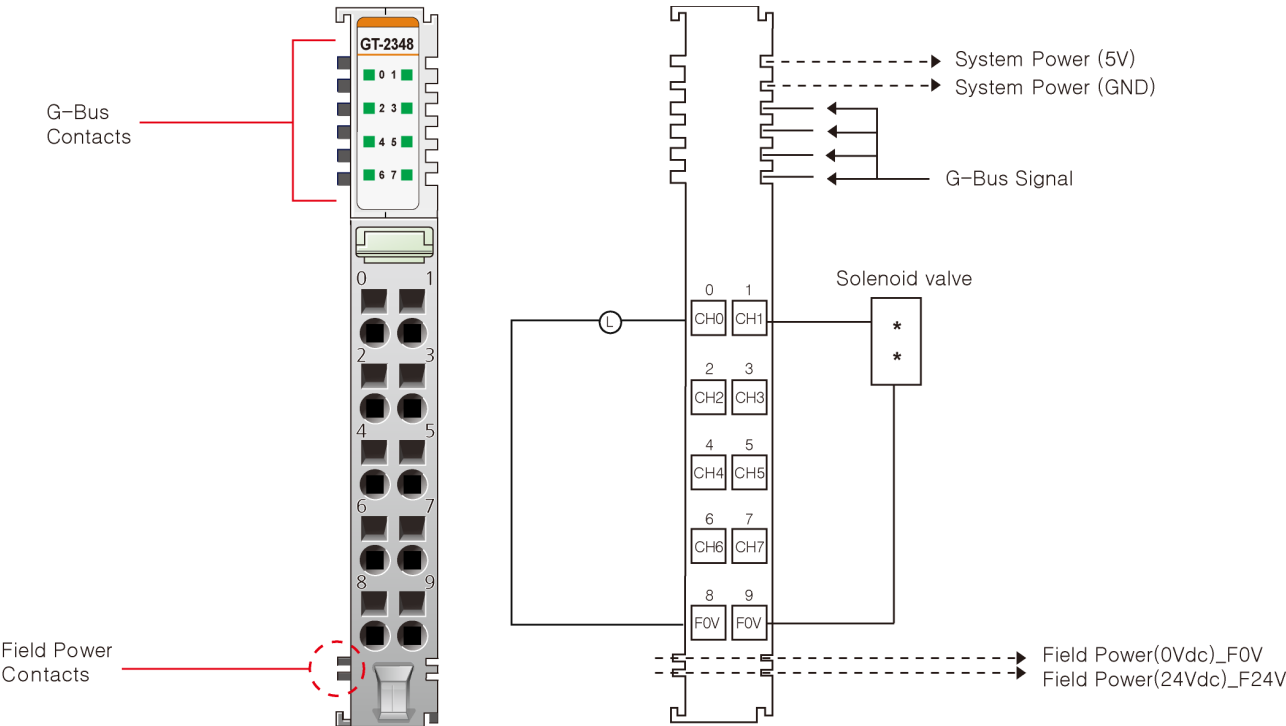
## 2. GT-2348 (8 Points, Source Output Terminal)

### 2.1. GT-2348 Specification

Items	Specification
<b>Output specification</b>	
Output per module	8 points source type
Indicators	8 green output status
Output voltage range	24Vdc nominal Min. 15Vdc ~ Max. 30Vdc
On-state voltage drop	0.3Vdc @ 25°C 0.4Vdc @ 60°C
On-state min. current	Min. 1mA
Off-state leakage current	Max. 2uA
Output signal delay	OFF to ON : Max. 0.1ms ON to OFF : Max. 0.6ms
Output current rating	Max. 0.5A per channel / Max. 4.0A per unit
Protection(1)	None
Common type	8 points / 2 COM
<b>General specification</b>	
Power dissipation	Max. 40mA @ 5Vdc
Isolation	I/O to Logic : photocoupler isolation Field power : non-isolation
UL field power	Supply voltage : 24Vdc nominal, Class 2
Field power	Supply voltage : 24Vdc nominal Voltage range : 15~30Vdc Power dissipation: 15mA @ 24Vdc
Single Wiring	I/O Cable Max. 2.0mm <sup>2</sup> (AWG 14)
Weight	57g
Module size	12mm x 99mm x 70mm
<b>Environment condition</b>	<b>Refer to '1. Environment Specification'</b>

(1) Check the 2.2.1 Wiring Guide.

2.2. GT-2348 Wiring Diagram

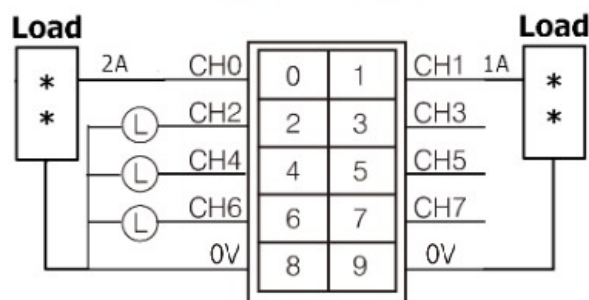
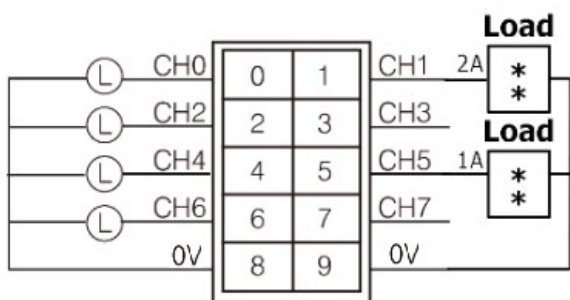
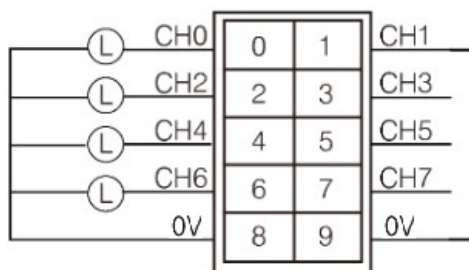
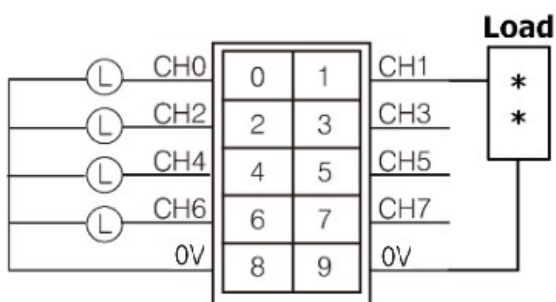


Pin No.	Signal Description	Signal Description	Pin No.
0	Output Channel 0	Output Channel 1	1
2	Output Channel 2	Output Channel 3	3
4	Output Channel 4	Output Channel 5	5
6	Output Channel 6	Output Channel 7	7
8	Common (Field Power 0V)	Common (Field Power 0V)	9

## 2.2.1. Wiring Guide

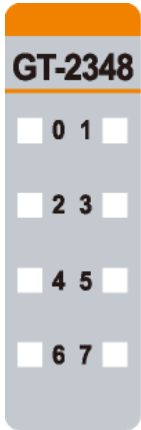
**WARNING !****Observe the following instructions for wiring**

- Observe the maximum output current of the I/O Module. Parts may be damaged.
- Do not connect the input and GND pins without any load. Parts may be damaged.
- If you are using current above 1.0A, Do not use next one channel.



2.3. GT-2348 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	OUTPUT Channel 0	Green
1	OUTPUT Channel 1	Green
2	OUTPUT Channel 2	Green
3	OUTPUT Channel 3	Green
4	OUTPUT Channel 4	Green
5	OUTPUT Channel 5	Green
6	OUTPUT Channel 6	Green
7	OUTPUT Channel 7	Green

2.3.2. Channel Status LED

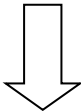
Status	LED	To indicate
No Signal	Off	No Output Signal
On Signal	Green	Output Signal detected



2.4. Mapping data into the image table

● Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0



● Output Module Data

D7	D6	D5	D4	D3	D2	D1	D0
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2.5. Parameter Data

- Valid Parameter length: 2 Bytes
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Fault Action (ch0~ch7) 0: Fault value, 1:Hold last state							
Byte1	Fault value (ch0~ch7) 0:Off, 1:On							