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# **FnIO G – Series :**

## ***GT-2358***

***GT-2358 (8 Points, Sink Output Terminal, 24Vdc, Multi-Com)***

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History

Rev	Pages	Remarks	Date	Editor
1.00			2017/10/16	Hongseok, Kim
1.01	6	Change Diagram, Point	2023/04/03	Soyeong, Park
1.02	4,6,7	Edit Certification / Change Diagram, Status LED	2023/08/08	Suna, Hwang
1.03	8	Edit Output Image Data Size	2023/10/31	Soyeong, Park

# 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

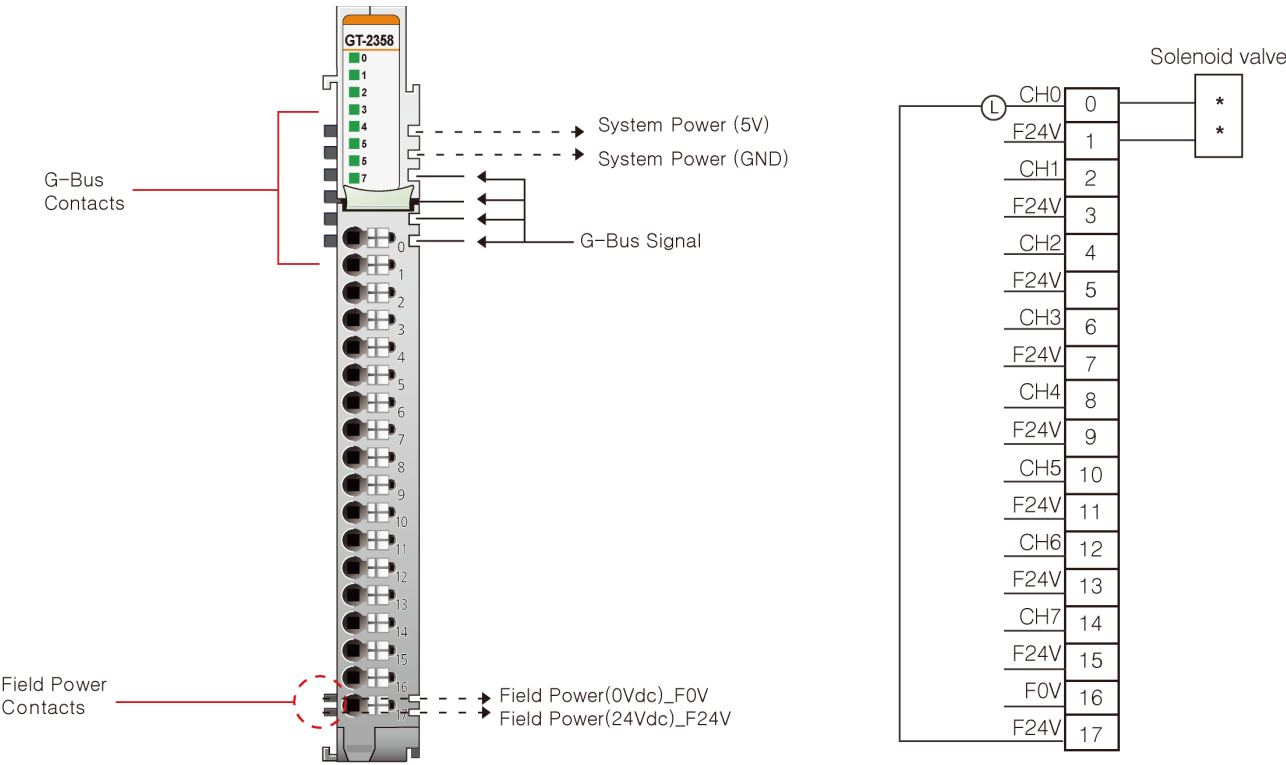
# Specification

## 2. GT-2358 (8 Points, Sink Output Terminal)

### 2.1. GT-2358 Specification

Items	Specification
<b>Input specification</b>	
Output per module	8 points sink type
Indicators	8 green output status
Output voltage range	24Vdc nominal 15Vdc ~ 28.8Vdc
On-state voltage drop	0.3Vdc @ 25°C 0.5Vdc @ 60°C
On-state min. current	Min. 1mA
Off-state leakage current	Max. 25uA
Output signal delay	OFF to ON : Max. 0.3ms ON to OFF : Max. 0.3ms
Output current rating	Max. 0.5A per channel / Max. 4.0A per unit
Protection	Over current limit: Min. 3.5A @ 25°C per each channels Thermal shutdown : Min 3A @ 25°C per each channels Short circuit protection
Common type	8 points / 10 COM
<b>General specification</b>	
Power dissipation	Max. 50mA @ 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 : 15~28.8Vdc Power dissipation: 10mA @ 24Vdc
Single Wiring	I/O Cable Max. 0.823mm <sup>2</sup> (AWG 18)
Weight	64g
Module size	12mm x 109mm x 70mm
<b>Environment condition</b>	<b>Refer to '1. Environment Specification'</b>

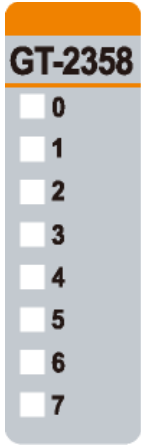
2.2. GT-2358 Wiring Diagram



Pin No.	Signal Description
0	Output Channel 0
1	Common (Field Power 24V)
2	Output Channel 1
3	Common (Field Power 24V)
4	Output Channel 2
5	Common (Field Power 24V)
6	Output Channel 3
7	Common (Field Power 24V)
8	Output Channel 4
9	Common (Field Power 24V)
10	Output Channel 5
11	Common (Field Power 24V)
12	Output Channel 6
13	Common (Field Power 24V)
14	Output Channel 7
15	Common (Field Power 24V)
16	Field Power 0V
17	Common (Field Power 24V)

2.3. GT-2358 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

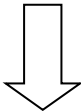
2.3.2. Channel Status LED

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
Byte1	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: 4 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 Action (ch8~ch15) 0: Fault value, 1:Hold last state							
Byte2	Fault value (ch0~ch7) 0:Off, 1:On							
Byte3	Fault value (ch8~ch15) 0:Off, 1:On							