
FnIO G – Series :

GT-2318

GT-2318(8 Points, Sink Output Terminal, 24Vdc/0.5A)

Specification

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History

REV.	PAGES	REMARKS	DATE	Editor
Preliminary		Preliminary	April 01, 2016	Park, Joonho
1.01		Environment Specification	Jun 03, 2016	DHLEE
1.02		Field Power dissipation	Mar 31, 2017	HS KIM
1.03	4,5	Shock, Vibration specification changed General specification added(UL)	04.20.2020	JY BAE
1.04	6	Changed Diagram / Channel to Point	Apr 03, 2023	Soyeong, Park

Specification

1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operation Temperature	-40°C ~70°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 DNVGL-CG-0039 : Vibration Class B, 4g
Industrial Emissions	EN61000-6-4/All : 2011
Industrial Immunity	EN 61000-6-2 : 2005
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL, FCC

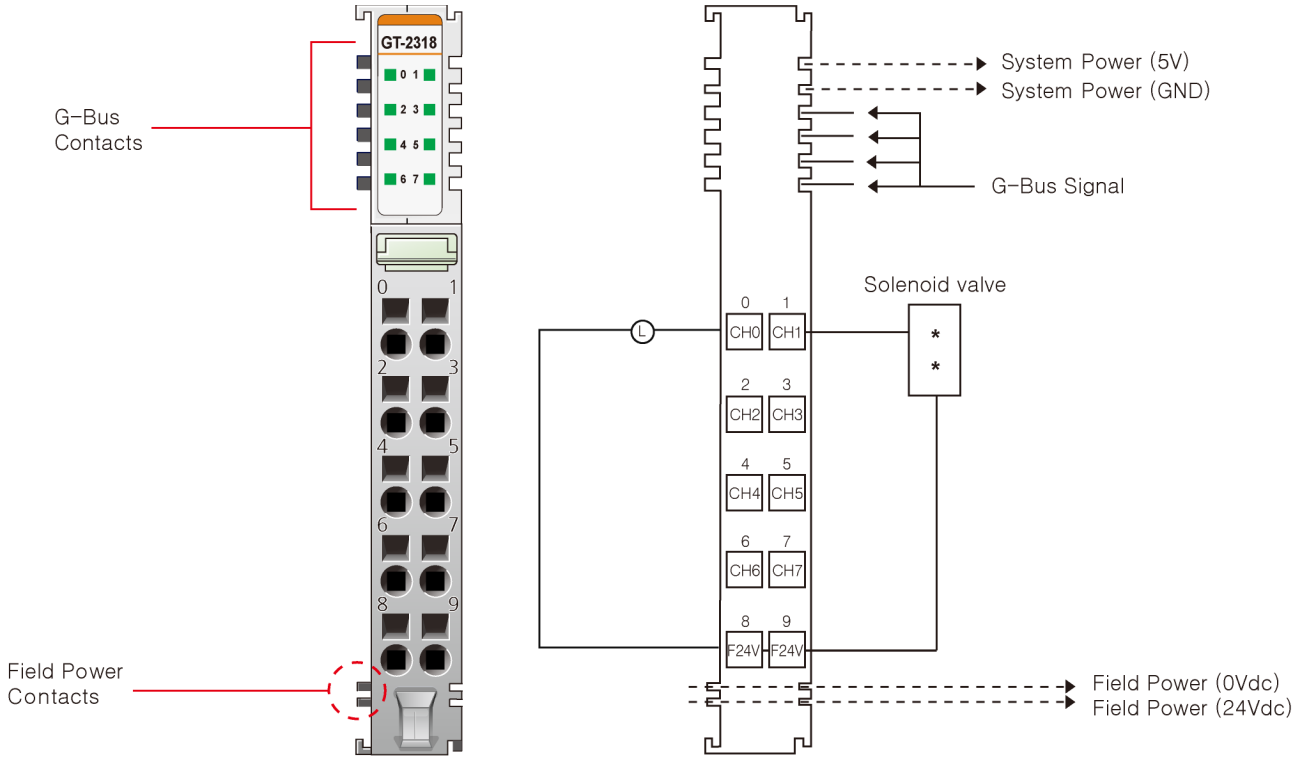
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2. GT-2318 (8 Points Sink Output Terminal)

2.1. GT-2318 Specification

Items	Specification
Output specification	
Outputs per module	8 points sink type
Indicators	8 green output status
Output voltage range	24Vdc nominal 15Vdc ~ 30Vdc @70°C
On-state voltage drop	0.3Vdc @ 25°C 0.5Vdc @ 70°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. 4A 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 / 2 COM
General specification	
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 : 15~30Vdc Power dissipation: 5mA @ 24Vdc
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	57g
Module size	12mm x 99mm x 70mm
Environment condition	Refer to '1. Environment Specification'

2.2. GT-2318 Wiring Diagram

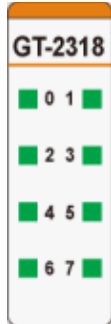


Pin No.	Signal Description	Signal Description	Pin No.
0	Output Channel 0	Output Channel 1	1
2	Output Channel 2	Output Channel 3	3
4	Output Channel 4	Output Channel 5	5
6	Output Channel 6	Output Channel 7	7
8	Common (Field Power 24V)	Common (Field Power 24V)	9

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2.3. GT-2318 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

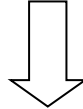
Status	LED is	To indicate
Not Signal	Off	Normal Operation
On Signal	Green	Normal Operation

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2.4. Mapping data into the image table

- Output Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte 0	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							