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# **FnIO G – Series :**

## ***GT-2744***

***GT-2744(4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A)***

# Specification

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Specification

History

Rev	Pages	Remarks	Date	Editor
1.00			2016/07/28	Geonwoong, Lee
1.01	8	Specification Revision	2016/10/17	Seokhyun, Jun
1.02	4,5	Shock, Vibration specification changed General specification added(UL)	2020/04/20	Juyong, Bae
1.03	6	Change Diagram	2023/04/03	Soyeong, Park
1.04	6,7	Change Diagram, Status LED	2023/08/08	Suna, Hwang

# Specification

## 1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operating 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 : 2008/15g, 11ms
Vibration Resistance	Based on IEC 60068-2-6, 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

# Specification

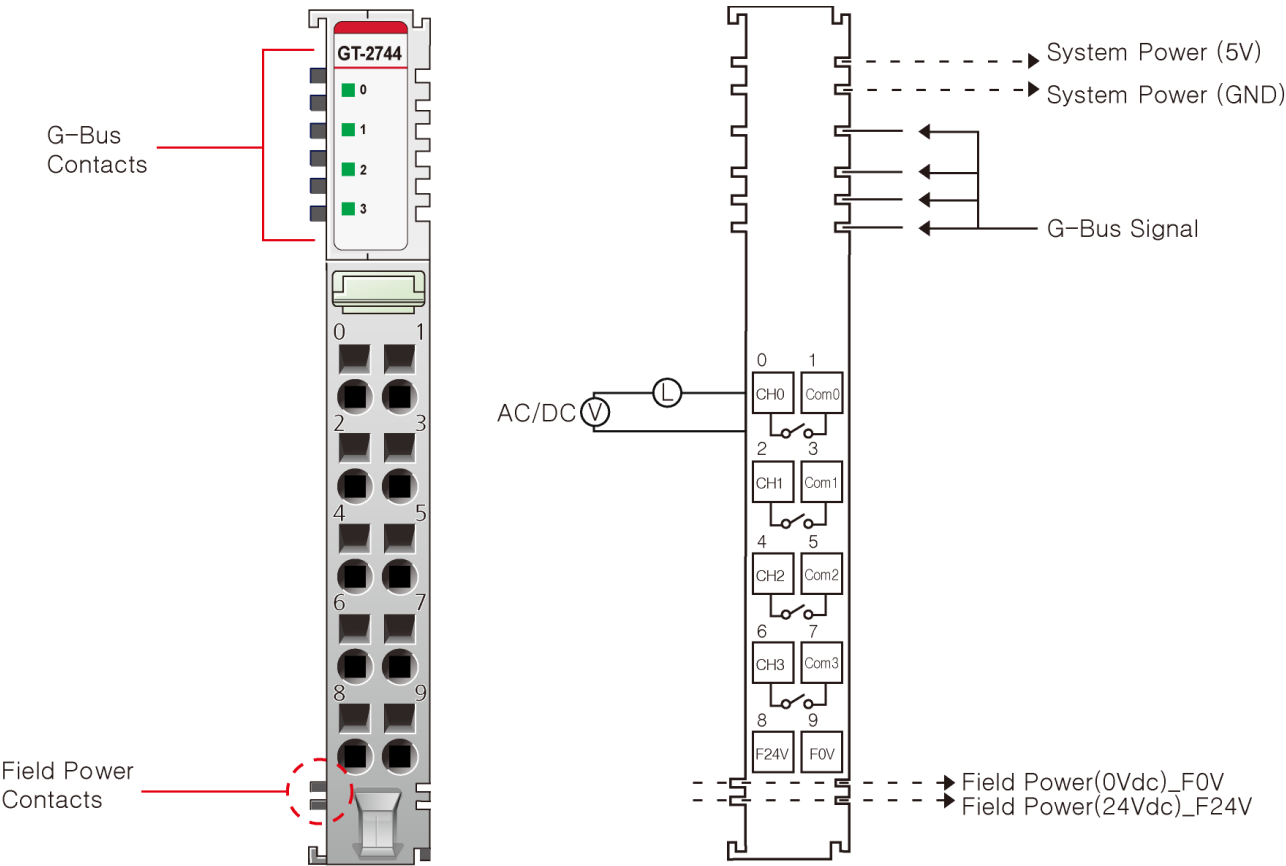
## 2. GT-2744 (4 Points, Relay Output Terminal, 24Vdc/2A, 240Vac/2A)

### 2.1. GT-2744 Specification

Items	Specification
<b>Output specification</b>	
Output per module	4 points, bi-directional
Indicators	4 green output state
Relay type	Form A, single pole single throw (SPST)
Output voltage range ( load dependent )	0~32Vdc @ 2.0A resistive 48Vdc @ 0.8A resistive 110Vdc @ 0.5A resistive 240Vac @ 2.0A resistive
Output current rating ( At rated power )	2.0A @ 0~30Vdc 0.8A @ 48Vdc 0.5A @ 110Vdc 2.0A @ 240Vac  -40°C~70°C (2A load 2ch) -40°C~60°C (2A load 4ch)
Output delay time (resistive load)	OFF to ON : Max. 5ms @ 24Vdc ON to OFF : Max. 8ms @ 24Vdc OFF to ON : Max. 5ms @ 220Vac ON to OFF : Max. 15ms @ 220Vac
Expected contact life	20M cycles (resistive)
Frequency range (Vac)	47Hz ~ 63Hz
Max. on-state voltage drop*	0.5V @ 2.0A, resistive load, 24Vdc
Common type	4 points / 2 COM
<b>General specification</b>	
Power dissipation	Mx.35mA @ 5Vdc
Isolation	I/O to Logic : photocoupler isolation Field power : non-isolation
Field power	Supply voltage : 24Vdc nominal Voltage range : 22 ~ 26Vdc Power dissipation: 30mA @ 24Vdc (AC Power Not used)
Wiring	I/O Cable Max. 2.0mm <sup>2</sup> (AWG 14)
Weight	58g
Module size	12mm x 99mm x 70mm
<b>Environment condition</b>	<b>Refer to 'Environment Specification'</b>

\* Voltage Drop specification is dependent on the cable length due to the high Load.

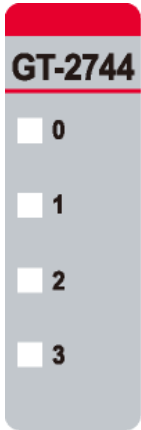
2.2. GT-2744 Wiring Diagram



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

2.3. GT-2744 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

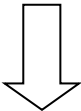
2.3.2. Channel Status LED

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	Reserved				D3	D2	D1	D0



● Output Module Data

D3	D2	D1	D0
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2.5. Parameter Data

- Valid Parameter length : 2Byte
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Reserved				Fault Action (ch0~ch3) 0: Fault value, 1: Hold last state			
Byte1	Reserved				Fault value(ch0~ch3)    0: Off, 1: On			