
FnIO G-Series

GT-2744

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

Specification

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History

REV.	PAGES	REMARKS	DATE	Editor
Preliminary	ALL	Preliminary	July 28, 2016	Lee, Geonwoong
1.01	8	Specification Revision	Oct 17, 2016	Jun, Seokhyun

Specification

1. Environment Specification

Environment specification	
Operating 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 Sine Vibration <ul style="list-style-type: none"> - 5 ~ 25Hz : ±1.6mm - 25 ~ 300Hz : 4g - Sweep Rate : 1 Oct/min, 20 cycles Random Vibration <ul style="list-style-type: none"> - 10 ~ 40 Hz : 0.0125 g²/Hz - 40 ~ 100 Hz : 0.0125 → 0.002 g²/Hz - 100 ~ 500 Hz : 0.002 g²/Hz - 500 ~ 2000 Hz : 0.002 → 1.3 x 10⁻⁴g²/Hz - Test time : lhrs for each test
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)

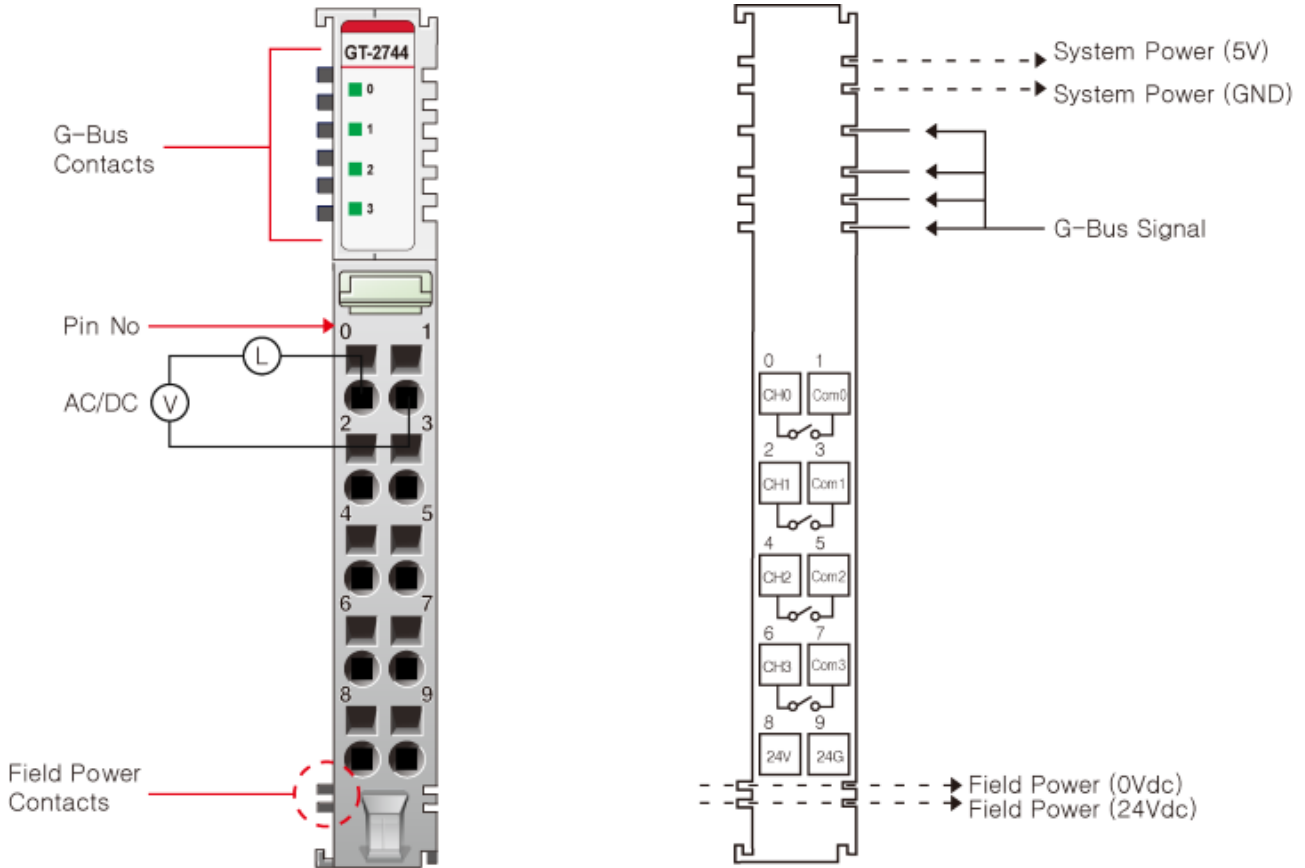
2.1. GT-2744 Specification

Items	Specification
Output specification	
Output per module	4 Points, Bi-directional
Indicators (Logic side)	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 Max. 240Vac @ 2.0A resistive
Output Current Rating (At rated power)	2.0A @ 0~32Vdc 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
Commons Type	4Points / 2COM (Single Common)
General Specification	
Power dissipation	35mA @ 5.0Vdc
Isolation	I/O to Logic : Isolation Field Power : Non-isolation
Field Power	Supply voltage : 24Vdc nominal Voltage range : 22 to 26Vdc Power dissipation: 30mA @ 24Vdc (AC Power Not used)
Wiring	I/O Cable Max. 2.0mm ² (AWG 14)
Weight	58g
Module Size	12mm x 99mm x 70mm
Environment Condition	Refer to 'Environment Specification'

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

Specification

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

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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

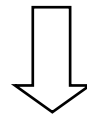
Status	LED	To indicate
Off Signal	Off	No Output Signal
On Signal	Green	Normal Operation

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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
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

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action(0~3) 0 : Fault Value, 1 : Hold last state	0 (Fault Value)
1	00-03	Fault Value (0~3) 0 : off, 1 : on	0 (off)