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# **FnIO G – Series :**

## ***GT-1904***

***GT-1904 (4 Points, AC Input Terminal, 240Vac)***

# Specification

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Specification

History

Rev	Pages	Remarks	Date	Editor
1.00			2016/06/18	Seokhyun, Jun
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	Joonho, Park
1.03	6	Change Diagram	2023/03/30	Soyeong, Park
1.04	4,6,7	Edit Certification / Change Diagram, Status LED	2023/08/08	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 : 2005
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL

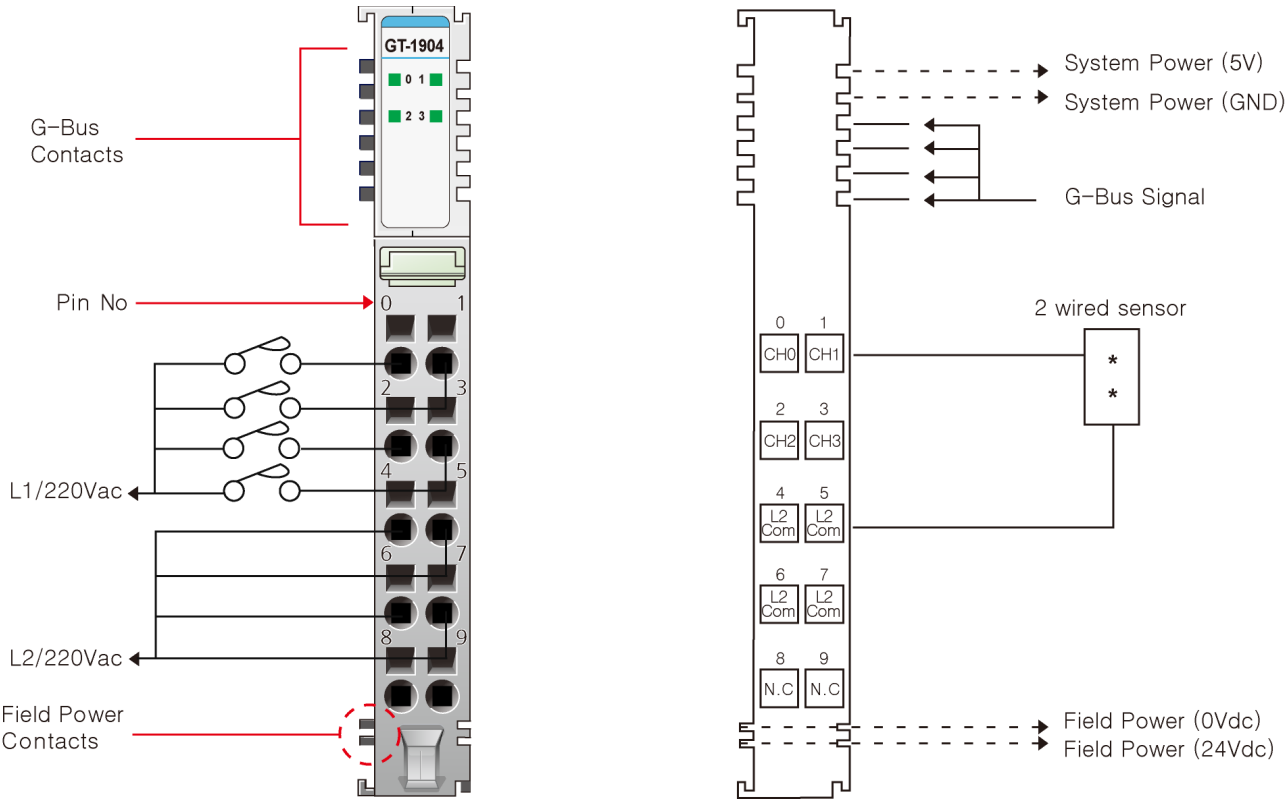
# Specification

## 2. GT-1904 (4 Points, AC Input Terminal, 240Vac)

### 2.1. GT-1904 Specification

Items	Specification
<b>Input specification</b>	
Inputs per module	4 points
Indicators	4 green input status
On-state voltage	240Vac nominal 170 ~ 264Vac @ 60°C
On-state current	10mA @ 240Vac
Off-state voltage	115Vac @ 25°C
Input signal delay	OFF to ON : Max. 30ms ON to OFF : Max. 140ms
Nominal input impedance	26.5 K ohm Typical
Frequency range	60Hz
Common type	4 Points / 4 COM ( L2/N )
<b>General specification</b>	
Power dissipation	Max. 30mA @ 5Vdc
Isolation	I/O to Logic : photocoupler isolation
UL field power	Supply voltage : 24Vdc nominal, Class 2
Field Power	Field Power passes through to the next module. Supply Voltage : 24Vdc Voltage Range : 15 ~ 30Vdc (AC Power Not Used)
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>

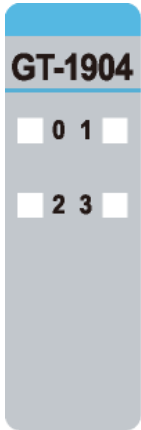
2.2. GT-1904 Wiring Diagram



Pin No.	Signal Description	Signal Description	Pin No.
0	Input Channel 0	Input Channel 1	1
2	Input Channel 2	Input Channel 3	3
4	Input Channel Common ( L2/N )	Input Channel Common ( L2/N )	5
6	Input Channel Common ( L2/N )	Input Channel Common ( L2/N )	7
8	N.C	N.C	9

2.3. GT-1904 LED Indicator

2.3.1. LED Indicator



LED No.	LED Function / Description	LED Color
0	INPUT Channel 0	Green
1	INPUT Channel 1	Green
2	INPUT Channel 2	Green
3	INPUT Channel 3	Green

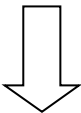
2.3.2. Channel Status LED

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

2.4. Mapping Data into the Image Table

● Input Module Data

D3	D2	D1	D0
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● Input Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Reserved				D3	D2	D1	D0