
FnIO G – Series :

GT-1278

GT-1278 (8 Points, Sink Input Terminal, 24Vdc, 6mA, Proximity)

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Specification

History

Rev	Pages	Remarks	Date	Editor
1.00			2021/06/01	Soyeong, Park
1.01	6	Change Diagram, Channel to Point	2023/03/30	Soyeong, Park
1.02	4,6,7	Edit Certification / Change Diagram, Status LED	2023/08/08	Suna, Hwang
1.03	6	Change Diagram	2024/02/13	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

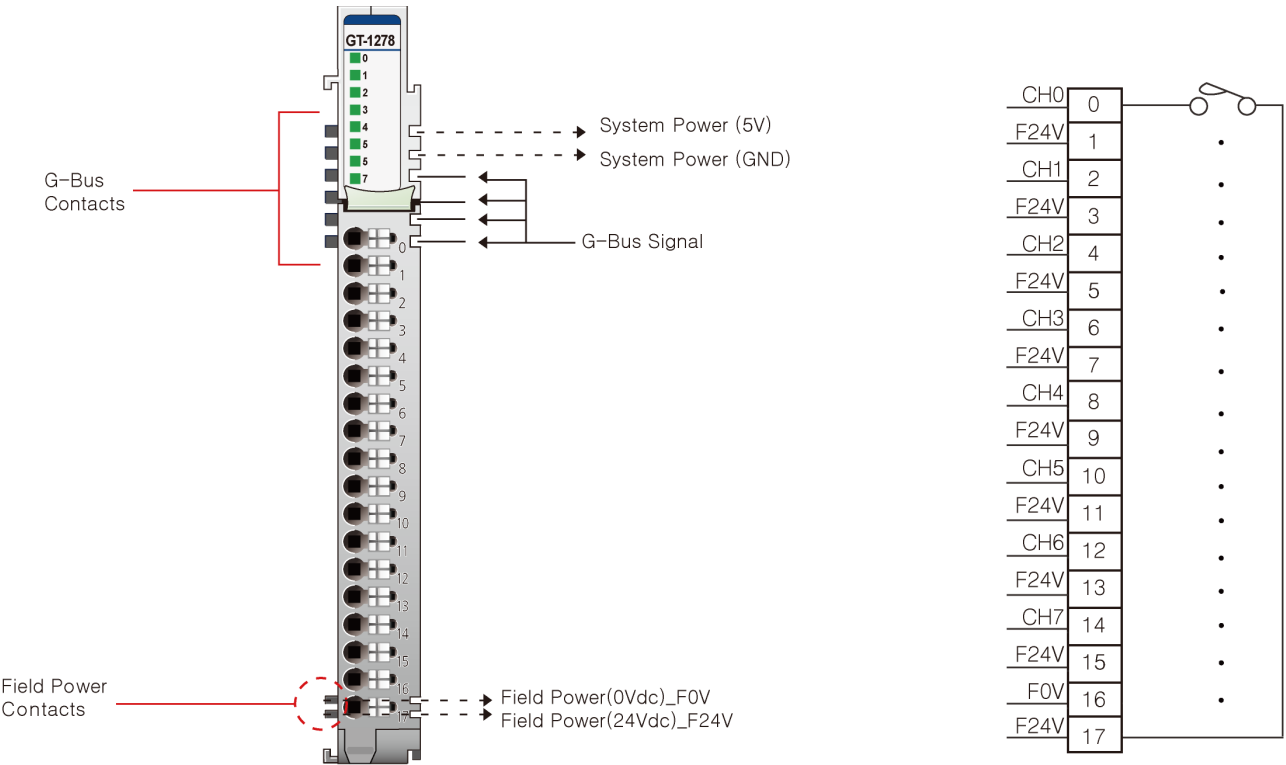
Specification

2. GT-1278 (8 Points, Sink Input Terminal, Proximity)

2.1. GT-1278 Specification

Items	Specification
Input specification	
Inputs per module	8 points sink type
Sensor Connection	2-wire proximity sensor
Indicators	8 green input status
ON-state voltage	24Vdc nominal 18 ~ 30Vdc @ 60°C
ON-state current	About 6mA @ 18~30Vdc
OFF-state voltage	9.8Vdc @ 25°C
Input signal delay	OFF to ON : Max. 0.3ms ON to OFF : Max. 0.3ms
Input filter	Adjustable, up to 10ms
Common type	8 points / 1 COM(Sink)
General specification	
Power dissipation	Max. 40mA @ 5Vdc
Isolation	I/O to Logic : photocoupler isolation
UL field power	Supply voltage : 24Vdc nominal, Class 2
Field power	Supply voltage : 24Vdc nominal Voltage range : 18~30Vdc Power dissipation: 10mA @ 24Vdc
Single wiring	I/O Cable Max. 0.823mm ² (AWG 18)
Weight	63g
Module size	12mm x 109mm x 70mm
Environment condition	Refer to '1. Environment specification'

2.2. GT-1278 Wiring Diagram



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

2.3. GT-1278 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
4	INPUT Channel 4	Green
5	INPUT Channel 5	Green
6	INPUT Channel 6	Green
7	INPUT Channel 7	Green

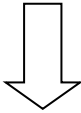
2.3.2. Channel Status LED

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

D7	D6	D5	D4	D3	D2	D1	D0
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● Input Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0

2.5. Parameter Data

- Valid Parameter length: 2 Bytes
- Parameter Data

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	Input Filter value : 0 ~ 10 (unit : ms)							
Byte1	Reserved							