FnIO G-Series :

GT-7151 / 7851

System/Field Power Filter for 24Vdc, 0Vdc

Table of Contetns

History

REV.	PAGES	REMARKS	DATE	Editor
1.00		New Document	Feb 18, 2020	Seokhyun, Jun
1.01	4,5	Shock, Vibration specification changed General specification added(UL)	April 20, 2020	Joonho, Park

1. ENVIRONMENT SPECIFICATION

Environmental specification	
Operaing Temperature	-40℃~70℃
UL Temperature	-20℃~60℃
Storage Temperature	-40℃~85℃
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 Emisiions	EN61000-6-4/All : 2011
Industrial Immunity	EN61000-6-2 : 2005
Installation Position	Vertical and horizontal installation is available
Product Certifications	CE, UL, FCC

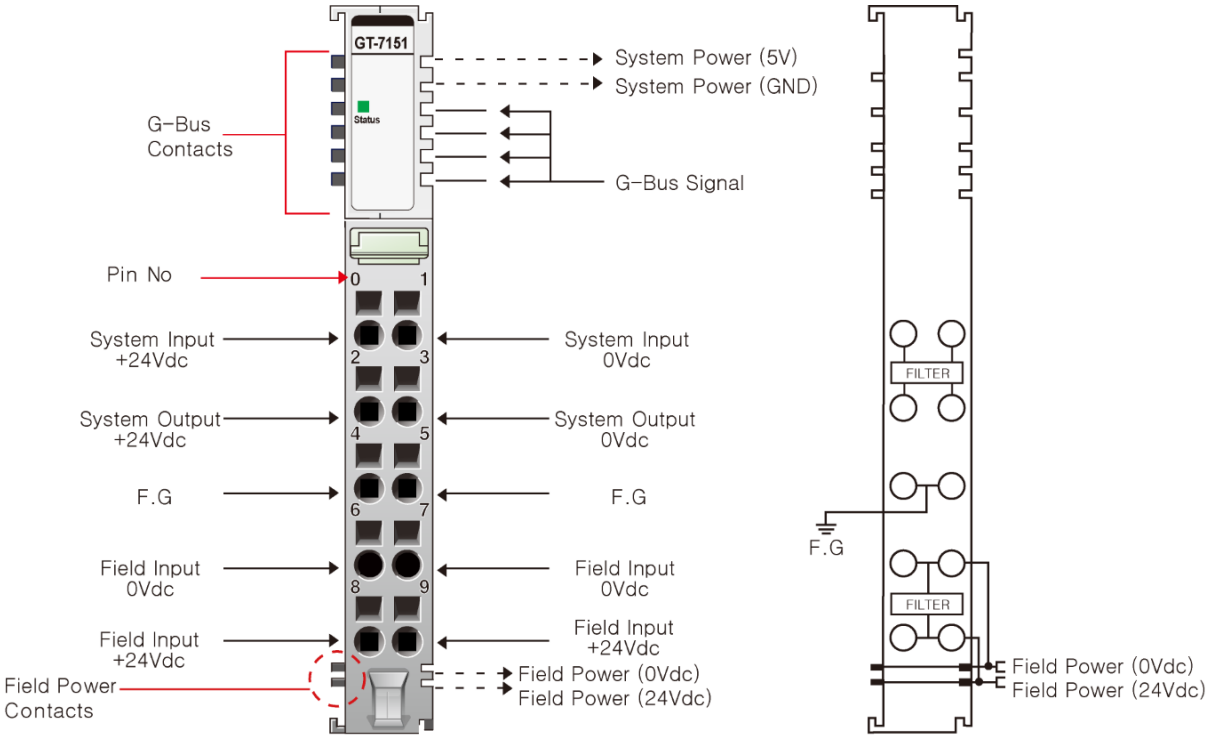
2. GT-7151(Non ID Type) / GT-7851(ID Type)

2.1. GT-7x51 Specification

Items	Specification
Technical specification	
Model description	System / field power filter for 24Vdc, 0Vdc
Input voltage	System / field 24Vdc(±20%)
Indicators	G-bus status 1 Green LED
System supply filter	Surge, EFT, Overcurrent protection
Field supply filter	Surge protection
Rated current system supply	< 1.5A @ 5V
Rated current field supply	< 10A
System output voltage	24Vdc(±20%)
General specification	
Power dissipation	Max. 30mA @ 5Vdc (GT-7851 Only)
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
Wiring	I/O Cable Max. 2.0mm^2(AWG 14)
Torque	0.8Nm(7 lb-in)
Weight	63g
Module Size	2mm x 99mm x 70mm
Environment Condition	**Refer to 'Environment Specification'**

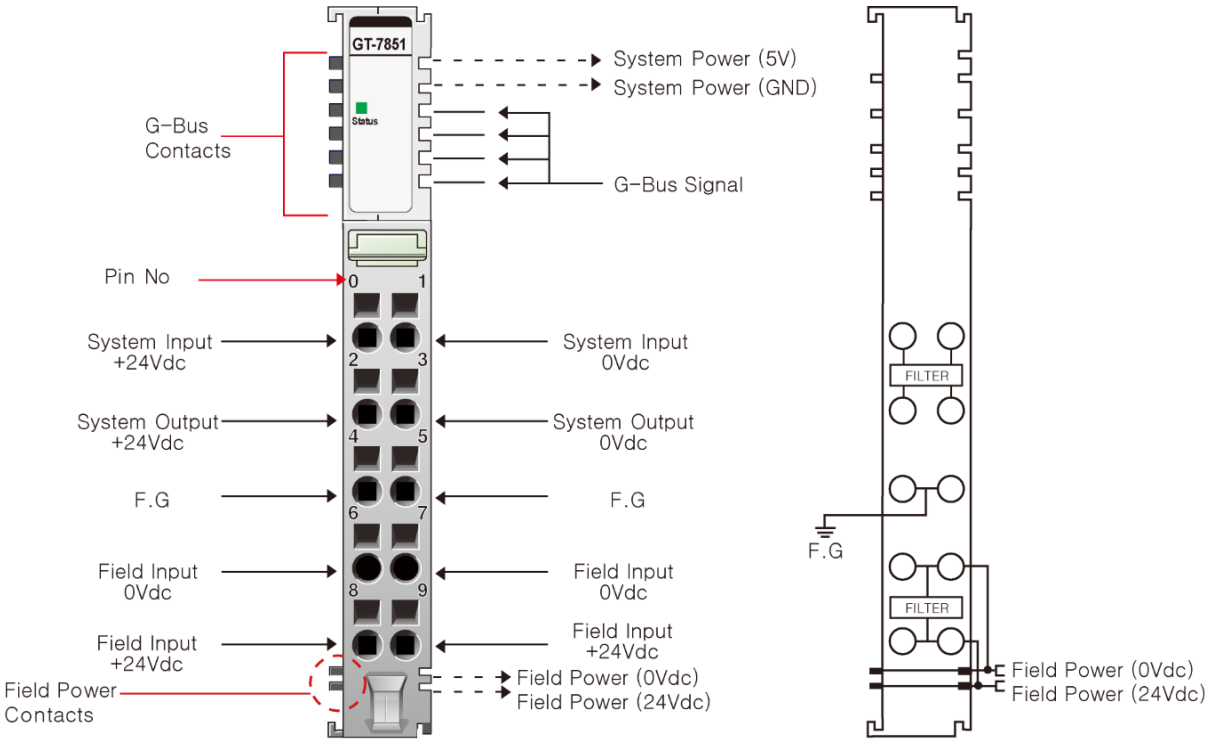
2.2. GT-7x51 Wiring Diagram

2.2.1. GT-7151(Non ID type)



Pin no.	Description	Description	Pin no.
0	System input +24Vdc	System input 0Vdc	1
2	System output +24Vdc	System output 0Vdc	3
4	Frame Ground	Frame Ground	5
6	Field input 0Vdc	Field input 0Vdc	7
8	Field input +24Vdc	Field input +24Vdc	9

2.2.1. GT-7851(ID type)



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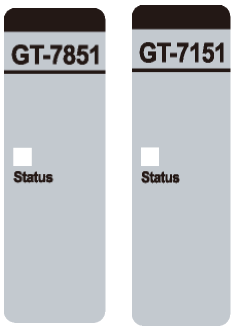
2.3. GT-7x51 LED Indicator

2.3.1. LED Indicator



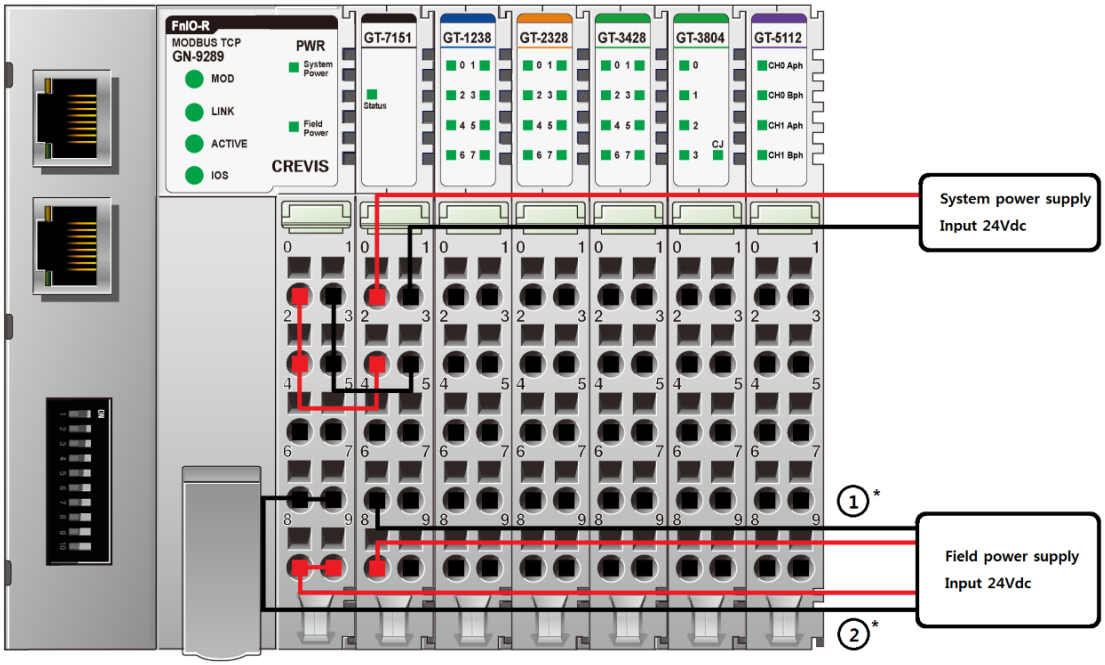
LED No.	LED Function / Description	LED Color
Status	Internal bus status	Green

2.3.2 Status LED

Status	LED	To Indicate
Normal operating	Green	The unit is operating in normal condition. (After normal initialization of GBUS communication, this LED maintains ON status.)
Absence of network adapter	Off	Network adapter is not connected to this module.

2.4. Example

- Ex1) GT-7x51 wiring



* Use Only ① or ②

- Ex2) GT-7x51 wiring