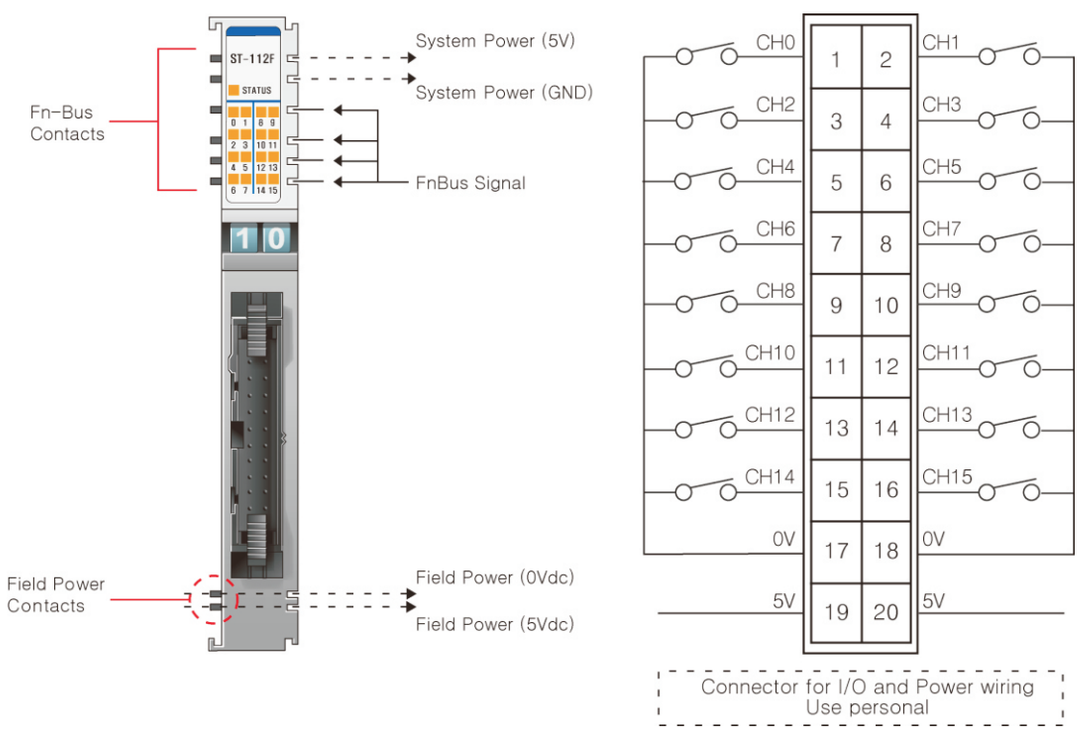
16 Points Source(Negative Logic) Input, 5Vdc, 20P Connector

- ST-112F는 16 Channels source type input이며, 0Vdc의 값으로 signal을 받습니다.
- 이 module은 digital field device (sensor 등..)로 부터 control signal을 받습니다.
- 이 module에는 17개의 상태 LED가 있으며, 하나는 network 상태, 나머지는 field devices 상태를 위한 것입니다.
- Fnbus와 Field I/O사이에는 photocoupler를 사용하여 전기적 절연이 되어 있습니다.
- 배선방식은 2 wire 또는 3 wire sensor(proximity 등..)로 연결 가능합니다.

Items	Specification
Input Specificatl/On	
Inputs Per Module	16 Points Source Type(Negative Logic)
Indicators	16 Green Input States, 1 Green / Red FnBUS State
ON-state Voltage	5Vdc nominal Min. 4.5Vdc ~ Max. 5.5Vdc
Min. OFF-state Voltage	Max. 0.8Vdc
ON-state Current	Max. 4.5mA / Point @5.5Vdc
Input Signal Delay	Max. 3ms
Filtering Time	Typ. 1.5ms(Software Filtering)
Common Type	16 Points / 2COM
General Specification	
Power Dissipation	Max. 45mA @ 5.0Vdc
Isolation	I/O to Logic : Photocoupler Isolation Field Power : Non-isolation
Field Power	Supply Voltage : 5Vdc nominal Voltage Range : Min. 4.5 ~ Max. 5.5Vdc Power Dissipation : Max. 70mA@5Vdc
Wiring	Connector Type, up to AWG22 Module Connector : HIF3BA-20D-2.54DSA
Weight	70g
Module Size	12mm x 99mm x 70mm
Environment Condition	Refer to " Environment Specification"(page : 1-261)

Pin NO	Description
1	Input Channel 0
2	Input Channel 1
3	Input Channel 2
4	Input Channel 3
5	Input Channel 4
6	Input Channel 5
7	Input Channel 6
8	Input Channel 7
9	Input Channel 8
10	Input Channel 9
11	Input Channel 10
12	Input Channel 11
13	Input Channel 12
14	Input Channel 13
15	Input Channel 14
16	Input Channel 15
17	Field Ground(0V)
18	Field Ground(0V)
19	Field Power(+5V)
20	Field Power(+5V)

Wire diagram



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Mapping Data into the image Table

Input Module Data

D7	D6	D5	D4	D3	D2	D1	D0
D15	D14	D13	D12	D11	D10	D9	D8

Input Image Value

Bit No	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
Byte0	D7	D6	D5	D4	D3	D2	D1	D0
Byte1	D15	D14	D13	D12	D11	D10	D9	D8

Expansion Module Status LED

Status	LED is	To indicate
Not Powered	Off	Device has no expansion Module or may not be powered
No Initialized		The Parameter is not initialized yet.
Fn-Bus Connection	Green	FnBus normal Operation
Fn-Bus Ready	Flashing Green	FnBus ready
Fn-Bus Fault	Flashing Red	FnBus Time Out
		FnBus Failed Communication
Device Fault	Red	Device Fault

Channel Status LED

Status	LED is	To indicate
Not Signal	Off	Normal Operation
On Signal	Green	Normal Operation