

JUXTA F Series

General Specifications

Model : FH3A/V

JUXTA

High Speed Isolator

1. GENERAL

- This signal conditioner converts DC current or voltage signals to current or voltage signals.
- Conversion is performed in high speed of 15ms max with 63% response.

2. SPECIFICATIONS

IO Specifications	
Input signal	DC voltage or current signals
Input resistance	1 M Ω for voltage input. 100 Ω - 1k Ω for current input
Permissible applied voltage	\pm 30V DC max
Output signal	DC current or voltage signal
Zero point adjustment range	\pm 5% of span
Span adjustment range	\pm 5% of span
Standard performance	
Precision rating	\pm 0.1% of span
Response speed	15ms 63% response (10~90%)
Insulation resistance	100M Ω min (at 500V DC) between input~output, input~power supply and output~power supply
Voltage withstand	1500V AC/minute between input~output, input~power supply 500V AC/minute between output~power supply
Ambient temperature and humidity	Normal operating condition: 0~50°C, 5~90% RH Operating limit: -10~60°C, 5~95% RH Storage condition: -40~70°C, 5~95% RH (no condensation)
Power supply voltage	24V DC \pm 10% (ripple: 10% P-P max)
Effect of power supply voltage fluctuation	\pm 0.1% max of span per 24V DC \pm 10% fluctuation
Effect of change in ambient temperature	\pm 0.2% max of span per 10°C change in temperature
Current dissipation	24V DC 85mA (FH3A), 50mA (FH3V)
Mountings and dimensions	
Material	Case: ABS plastic
Boards	Both sides glass-epoxy
Mounting methods	Rack, wall, or DIN rail
Connection method	M4-screw terminals
External dimensions	72 x 24 x 127 mm (h x w x d)
Weight	130g
Accessories	
Tag number label : x 1	
Mounting blocks: x2	M4 mounting screws: x2

FH3□-□□*B

TYPE NO.

OUTPUT SPECIFICATION

A: Current

V: Voltage

INPUT SIGNAL

A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC	7: -10~+10V DC
H: 10~50mA DC	0: (custom) voltage signal
Z: (custom) current signal (150mA max)	(±300V max)

OUTPUT SIGNAL

FH3A	FH3V
A: 4~20mA DC	1: 0~10mV DC
B: 2~10mA DC	2: 0~100mV DC
C: 1~5mA DC	3: 0~1V DC
D: 0~20mA DC	4: 0~10V DC
E: 0~16mA DC	5: 0~5V DC
F: 0~10mA DC	6: 1~5V DC
G: 0~1mA DC	7: -10~+10V DC
Z: (custom) current signal (24mA max)	0: (custom) voltage signal (±10V max)

POWER SUPPLY

24V DC±10%

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

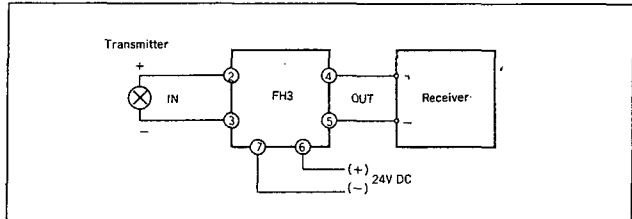
FH3A (DC Current Output)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	5MΩ min	0~750Ω
2~10mA DC		0~1500Ω
1~5mA DC		0~3000Ω
0~20mA DC		0~750Ω
0~16mA DC		0~900Ω
0~10mA DC		0~1500Ω
0~1mA DC		0~15kΩ
Others where I ₁₀₀ =24mA max		

I₁₀₀ : 100% output current

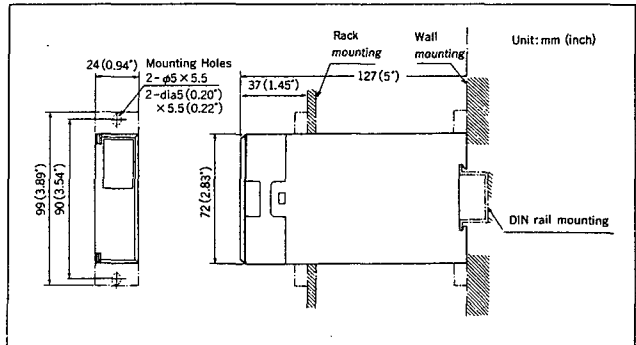
FH3V (DC Voltage Output)			
Output Signal	Output Resistance	Permissible Load Resistance	
0~10mV DC	100Ω max	250kΩ min	
0~100mV DC		2kΩ min	
0~1V DC	1Ω max	10kΩ min	
0~10V DC		2kΩ min	
0~5V DC		2kΩ min	
1~5V DC		10kΩ min	
-10~+10V DC		10kΩ min	
Others where V ₁₀₀ ≤100mV	100Ω max	250kΩ min	
V ₁₀₀ =24mA max	1Ω max	10kΩ min	

V₁₀₀ : 100% output voltage

WIRING DIAGRAM



EXTERNAL DIMENSION



Subject to change without notice for grade up quality and performance