JUXTA F Series General Specification

Model FX3□-LE (Variable software type)
FX4□-LE (Fixed software type)
1st-order Lead Unit

JUXTA

1. GENERAL

This is a variable or fixed software type computing unit which accepts a mV signal from various converters and outputs the 1st-order lead computed result using a time constant set by a handy terminal or variable resistor as an isolated DC voltage or current signal.

2. SPECIFICATIONS

Model No.	FX3A-LE, FX3V-LE	FX4A-LE, FX4V-LE
Input signal	mV signal: 1 point	mV signal: 1 point Volume setting
Measuring range	−2 to 10 mV (There is accuracy limitation for spans of more than 3 mV and less than 10 mV.) −10 to 50 mV (For span of more than 10 mV) −50 to 250 mV (for span of more than 50 mV) −100 to 1250 mV (for span of more than 250 mV) (*1)	
Input resistance	1 MΩ (At power failure: More than 3 KΩ)	
Output signal	4 to 20 mA, 2 to 10 mA, 1 to 5 mA, 0 to 20 mA, 0 to 16 mA, 0 to 10 mA or 0 to 1 mA DC 0 to 10 mV, 0 to 100 mV, 0 to 1 V, 0 to 10 V, 0 to 5 V, 1 to 5 V or −10 to +10 V DC	
Computing equation	$Y = (1 + \frac{TS}{1 + TS}) X$	Y: Output signal X: Input signal (%) T: Time constant (sec)
Time constant setting range	1.0 to 799.0 sec (1.0 to 799.0%) (*2)	1.0 to 100.0 sec (0.010 to 1.000 V)
Basic accuracy	±0.2% of measuring span	
Signal insulation	Between input signal and output signal/power supply circuits, and between output signal and power supply circuits	
Insulation resistance	Between input signal and output signal/power supply circuits Between output signal and power supply circuits: 100 MΩ/500 V DC	
Dielectric strength	Between input signal and output signal/power supply circuits: 1500 V AC/min Between output signal and power supply circuits: 500 V AC/min	
Power supply voltage	24 V DC ±10%	
Ambient temperature/humidity	0 to 50°C (32 to 122°F) and 5 to 93% relative humidity (No condensation)	
Effect of ambient temperature	±0.2% of span for 10°C (50°F) change	
Effect of power supply voltage	±0.2% of span for 24 V DC ±10% variation	
Power consumption	24 V DC, 56 mA (Voltage output) and 24 V DC, 78 mA (Current output)	
Dimensions	72 (2.83") H × 24 (0.94") W × 127 (5.00") D mm (inch)	
Weight	Approx. 130 g	
Accessories	Tag number label : 1 sheet Mounting blocks: 2 pcs.	

Specify the following when ordering:
(*1) Measuring range from □ to □mV
Range accuracy for span of les than 10 mV; 0.2 × 10/(mV input span) %
(*2) 1st-order lead time constant; □sec

FX□□-□□-1□*B

MODEL

SOFTWARE TYPE
3: Variable type
4: Fixed type

OUTPUT
A: Current
V: Voltage

INPUT SIGNAL
1: Voltage signal

OUTPUT 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 DC	7: -10~+10 DC
Z: Specify current. (30mA max.)	0: Specify voltage. (-10V~+10V)

Ordering Information

Input Measuring Range		
Range name	Allowable min. span	Allowable Measuring Range
HH	250 mV	-100 ~ 1250 mV
H	50 mV	-50 ~ 250 mV
L	10 mV	-10 ~ 50 mV
LL	3 mV	-2 ~ 10 mV
However, accuracy of less than 10 mV span is $0.2\% \times \frac{10\ \text{mV}}{\text{Input span (mV)}}$ (%)		

Recommended Input Range	
Voltage signal	0 ~ 10 mV DC 0 ~ 100 mV DC 0 ~ 1V DC

OUTPUT RESISTANCE AND LOAD RESISTANCE

Output Signal	Load Resistance	Output Impedance
4 to 20mA DC	0 to 750Ω	5MΩ or more
2 to 10mA DC	0 to 1500Ω	
1 to 5mA DC	0 to 3000Ω	
0 to 20mA DC	0 to 750Ω	
0 to 16mA DC	0 to 900Ω	
0 to 10mA DC	0 to 1500Ω	
0 to 1mA DC	0 to 15kΩ	

Output Signal	Load Resistance	Output Impedance
0 to 10mV DC	100kΩ or more	100Ω or less
0 to 100mV DC		
0 to 1V DC	2kΩ or more	1Ω or less
0 to 5V DC		
1 to 5V DC		
0 to 10V DC	10kΩ or more	
-10 to +10V DC		