JUXTA D Series General Specifications

Model DD1
Tachometer Transmitter

JUXTA

1. General

This DSC correspondence nest stored type distributor converts AC voltage signals of tachometer (tachogenerator) into various current or voltage signals.

- AC/DC conversion is made by mean value.

2. Specifications

Input & Output	
Input signal	0～V_{100}V AC (V_{100}=100% input voltage) 16≦V_{100}≦150V AC
Input frequency	15Hz≦F_{100}≦1kHz (F_{100}=input frequency)
Permissible over input	120% (continous), 200% (1 minute)
Ch1 output signal	1～5V DC
Ch2 output signal	DC voltage or current signal(In case of current output, output is only available either from front terminal ③～④ or connector
Zero point adjustment range	±5% of span
Span adjustment range	±5% of span
Standard Performance	
Accuracy rating	±0.3% of span (input 100%, frequyency 30Hz or more)
Response speed	2.4s 63% response (10～90%)
Insulation resistance	100MΩ or more (at 500V DC) between input～output～power supply mutually
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 : -10～70°C, 5～95% RH (no condensation)
Power supply voltage	24V DC±10% (ripple content 10% p-p or less)
Effect of power supply voltage fluctuation	±0.1% or less of span per 24V DC±10% fluctuation
Effect of ambient tempearture change	±0.2% or less of span per 10°C temperature change
Current dissipation	24V DC 90mA(4～20mA DC) 60mA(1～5V DC)
Mounting & Dimension	
Boards	Both sides glass-epoxy
Mounting method	Store in exclusive nest (signal·power supply be connected through back board and connector)
Wiring	External wiring : Connect to terminal M4 screw of input/output of exclusive nest. Connection to I/O card: By exclusive cable (connector)
External dimension	130.6 X 23.6 X 126mm (HxWxD)
Weight	About 120g
Accessories	
Tag number label ... 4	

DD1-16□*A

TYPE

INPUT SIGNAL
1 : AC Voltage Signal

CH1 OUTPUT SIGNAL
6 : 1~5V DC

CH2 OUTPUT SIGNAL

[FD1A]	[FD1V]
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 or less)	0 : (CUSTOM) Voltage Signal (±10V or less)

POWER SUPPLY
24V DC±10%

ORDERING INFORMATION
(Example) Type Code : DD1-16A*A

Output resistance and permissible load resistance

(DC current output type)		
Output signal	Output resistance	Permissible load resistance
4~ 20mA DC	5MΩ or less	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, in case of $I_{...}$=24mA or less		(15/$I_{...}$)Ω or less

$I_{...}$=100% output current value

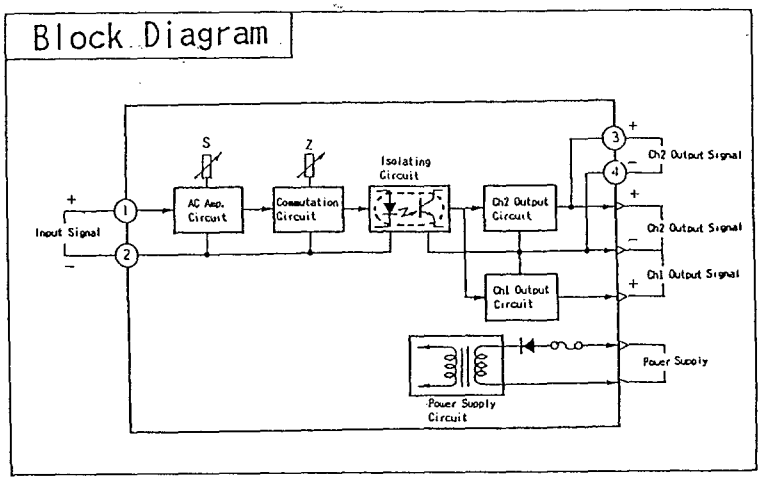
(DC voltage output type)			
Output signal		Output resistance	Permissible load resistance
0~ 10mV DC		100Ω or less	250KΩ or more
0~100mV DC			
0~1V DC		1Ω or less	2KΩ or more
0~10V DC			10KΩ or more
0~5V DC			2KΩ or more
1~5V DC			2KΩ or more
-10~+10V DC			10KΩ or more
Others, in case of $I_{...}$=10V or less	$V_{...}$≦100mV	100Ω or less	250KΩ or more
	$V_{...}$>100mV	1Ω or less	10KΩ or more

$I_{...}$=100% output voltage value

(Note) At 0~XmA of current output type, output value of 0.5% or less would be out of warranty regarding relative accuracy for Ch1 output.

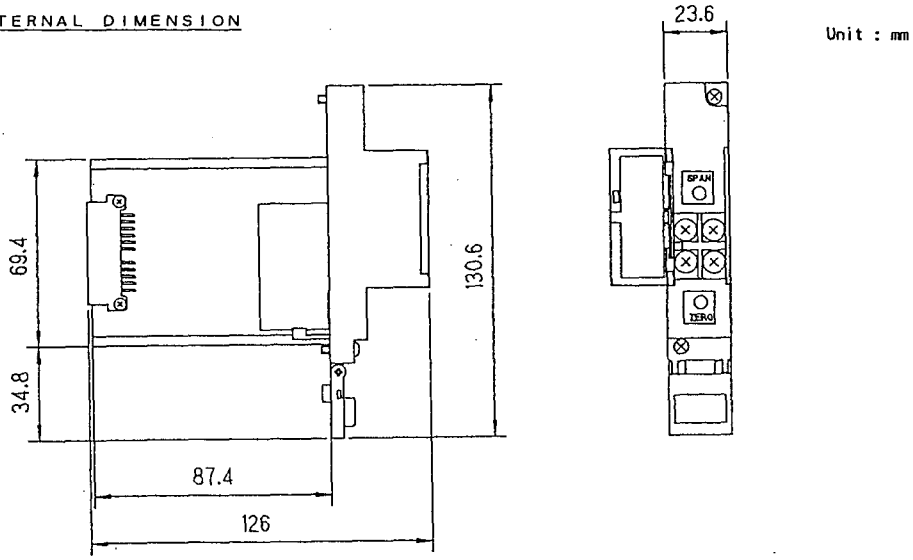
CAUTION
Input signal should be connected to front terminal ①~② of tramsmitter

Block Diagram



EXTERNAL DIMENSION

Unit : mm



Subject to change without notice for grade up quality and performance