

JUXTA W Series

General Specifications

WX1A/V-DT
 WX2A/V-DT
 Dead Time Unit
 (Soft Variable Type)

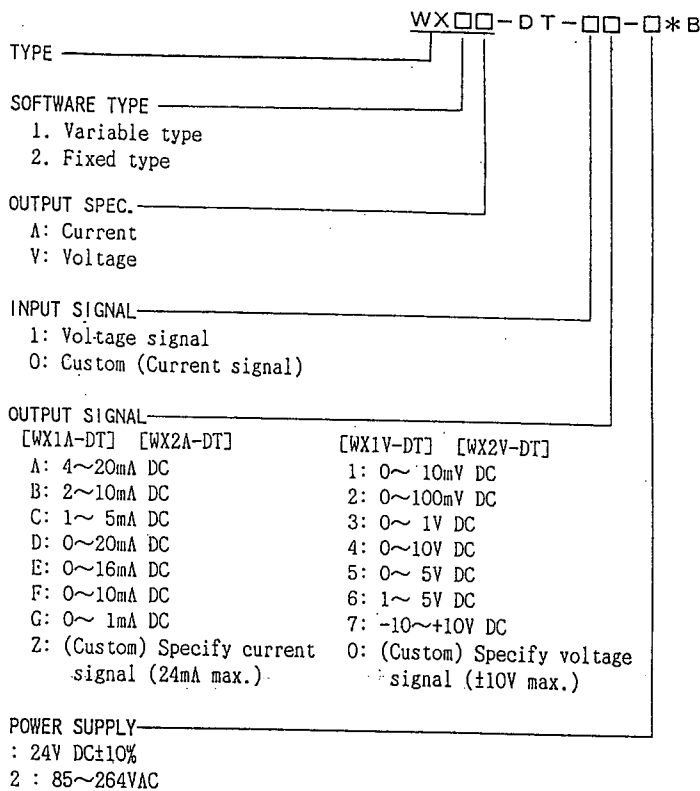
JUXTA

1. GENERAL

These soft variable type dead time units input voltage signal from various converters and output isolated current or voltage signals after computing dead time set by handy terminal (when use of WX1A/V-DT) or trimmer (when use of WX2A/V-DT).

2. SPECIFICATIONS

Type	WX1A/V-DT	WX2A/V-DT
Input & Output		
Input signal	DC voltage signal: 1 point (Set by handy terminal)	DC voltage signal : 1 point (Set by trimmer)
Measuring range	Voltage signal input is less than 0~10V DC and span is more than 2V Current signal input (input resistance : 250Ω x input current : Iin) should satisfy measuring range of voltage signal input	
Input resistance	1MΩ (more than 100KΩ when power off)	
Output signal	DC current or voltage signal	
Zero point adjust range	±1% of span	
Zero span adjust range	±1% of span	
Standard Performance		
Mathematical formula	$Y = \frac{e^{-LS}}{1 + TS} X$	$Y = e^{-LS} X$ Y=Output X=Input
Dead time setting range	0~7990 sec.	0~1000 sec. (0~1.000V)
Time constant setting range	0~799.0 sec.	
Accuracy rating	±0.1% of span	±0.2% of span
Response speed	500ms 63% response (10~90%)	
Signal insulation	Between any of input, output and power supply	
Insulation resistance	100MΩ (at 500V DC) between input~output~power supply (DC Drive) between input~output~power supply~ground (AC Drive)	
Withstand voltage	1500V AC/minute between input~output~power supply 500V AC /minute between output~power supply (DC Drive) 1500V AC/minute between input~output~power supply~ground (AC Drive)	
Ambient temperature & humidity	Normal operating condition : 0~50℃, 5~90%RH Possible operating limit : -10~60℃, 5~95%RH Transport & storing condition : -40~70℃, 5~95%RH (no condensation)	
Power supply voltage	85~264VAC 47~63Hz or 24VDC±10%	
Effect of power supply voltage fluctuation	±0.1% of span per fluctuation of 85~264VAC 47~63Hz or 24VDC±10%	±0.2% of span per fluctuation of 85~264VAC 47~63Hz or 24VDC±10%
Effect of ambient temperature change	±0.2% of span per change of 10℃	
Power consumption	100VAC 6.2VA (WX1V-DT) 100VAC 7.3VA (WX1A-DT)	100VAC 6.2VA (WX2V-DT) 100VAC 7.3VA (WX2A-DT)
Mounting, Shape & Accessories		
Material	ABC plastic case	
Board	Glass epoxy both side	
Mounting method	Rack, Wall mount, DIN rail	
Connecting method	M4 screws terminal connection	
External dimension	72x48x127mm (HxWxD)	
Weight	Abt. 150g (DC Drive) Abt. 280g (AC Drive)	
Accessories	Tag number label 1 Mounting block 2	



Ordering Information

Measuring Range of Input	
Voltage input signal: 2V min. Span for 0~10V DC	
Current input signal (input resist. 250Ω): (250Ω) × (Input current) shall be within the measuring span of voltage input signal.	
	Recommended Range
Current signal	4~20mA DC
	2~10mA DC
	0~20mA DC
	0~16mA DC
	0~10mA DC
Voltage signal	0~10V DC
	0~5V DC
	1~5V DC

(Note) Change of input between voltage and current is impossible by Handy Terminal.

OUTPUT RESISTANCE AND PERMISSIBLE LOAD RESISTANCE

WX1A-DT & WX2A-DT (DC Current Output Type)		
Output Signal	Output Resistance	Permissible Load Resistance
4~20mA DC	More than 5MΩ	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, I _o is less than 24mA		Less than (15/I _o)Ω

I_o : 100% output current value

WX1V-DT & WX2V-DT (DC Voltage Output Type)			
Output Signal	Output Resistance	Permissible Load Resistance	
0~10mV DC	Less than 100Ω	More than 250KΩ	
0~100mV DC			
0~1V DC	Less than 1Ω	More than 2KΩ	
0~10V DC		" " 10KΩ	
0~5V DC		" " 2KΩ	
1~5V DC		" " 2KΩ	
-10~+10V DC		" " 10KΩ	
Others, V _o is less than 10V		V _o ≤ 100mV	Less than 100Ω
	V _o > 100mV	Less than 1Ω	" " 10KΩ

V_o : 100% output voltage value

Subject to change without notice for grade up quality and performance