High Speed Counter Modules

DC Input Sink Output Type and DC Input Source Output Type

Model Number		RD62P2		RD62P2E
Stocked Item		S		S
Certification		UL • cUL • CE		
Counting Speed Switch Setting (*1)		200kpps (100k to 200kpps)	100kpps (10k to 100kpps)	10kpps (10kpps or less)
Number of Channels		2 channels		
Count Input Signal	Phase	1-phase input (multiple of 1/multiple of 2), 2-phase input (multiple of 1/multiple of 2/multiple of 4), CW/CCW input		
	Signal Level (øA, øB)	2 to 5mA at 5/12/24 VDC		
Counter	Counting Speed (Max.) (*2)	200kpps	100kpps	10kpps
	Counting Range	32-bit signed binary value (-2147483648 to 2147483647)		
	Type	UP/DOWN preset counter + Ring counter functions		
Coincidence Output	Comparison Range	32-bit signed binary value		
	Comparison Result	Set value < Count value, Set value = Count value, Set value > Count value		
External Input	Preset	7 to 10mA at 5/12/24 VDC		
	Function • Start			
	Digital Filter	0ms, 0.1ms, 1ms, 10ms		
Pulse Measurement	Measurement Item	Pulse width (ON width/OFF width/rise to rise/fall to fall)		
	Measurement Resolution	100ns		
	Number of Measurement Points	1 point/channel		
External Output	Coincidence Output	RD62P2	Transistor (sink type) output, 2 points/channel 12/24 VDC, 0.5A/point, 2A/common	
		RD62P2E	Transistor (source type) output, 2 points/channel 12/24 VDC, 0.1A/point, 0.4A/common	
PWM Output	Output Frequency Range	DC to 200kHz maximum		
	Duty Ratio	Arbitrary value (can be set at 0.1µs)		
	Number of Output Points	2 points/channel		
Number of Occupied I/O Points		16 points (I/O assignment: Intelligent 16 points)		
Internal Current Consumption (5 VDC)		0.11A		0.20A
External Dimensions (H x W x D) mm		106 x 27.8 x 110		
Weight (kg)		0.11		0.12

Notes:
1. Set the counting speed in the counting speed setting of Basic setting.
2. The counting speed is affected by the pulse rise/fall time. A count can be performed with the following counting speed. Note: Counting pulses of which the rise/fall time is long may result in an incorrect count.

Differential Input Sink Output Type

Model Number		RD62D2							
Stocked Item		S							
Certification		UL • cUL • CE							
Counting Speed Switch Setting (*1)	In Multiple of 1	-	-	2Mpps (1M to 2Mpps)	1Mpps (500k to 1Mpps)	500kpps (200k to 500kpps)	200kpps (100k to 200kpps)	100kpps (10k to 100kpps)	10kpps (10kpps or less)
	In Multiple of 2	-	4Mpps (2M to 4Mpps)						
	In Multiple of 4	8Mpps (4M to 8Mpps)							
Number of Channels		2 channels							
Count Input Signal	Phase	1-phase input (multiple of 1/multiple of 2), 2-phase input (multiple of 1/multiple of 2/multiple of 4), CW/CCW input							
	Signal Level (øA, øB)	EIA Standards RS-422-A, differential line driver level (AM26LS31 [manufactured by Texas Instruments] or equivalent)							
Counter	Counting Speed (Max) (*2)	8Mpps	4Mpps	2Mpps	1Mpps	500kpps	200kpps	100kpps	10kpps
	Counting Range	32-bit signed binary value (-2147483648 to 2147483647)							
	Type	UP/DOWN preset counter + Ring counter functions							
Coincidence Output	Comparison Range	32-bit signed binary value							
	Comparison Result	Set value < Count value, Set value = Count value, Set value > Count value							
External Input	Preset	7 to 10mA at 5/12/24 VDC (EIA Standard RS-422-A differential line driver can be connected)							
	Function • Start								
	Digital Filter	0ms, 0.1ms, 1ms, 10ms							
Pulse Measurement	Measurement Item	Pulse width (ON width/OFF width/rise to rise/fall to fall)							
	Measurement Resolution	100ns							
	Number of Measurement Points	1 point/channel							
External Output	Coincidence Output	Transistor (sink type) output, 2 points/channel 12/24 VDC, 0.5A/point, 2A/common							
PWM Output	Output Frequency Range	DC to 200kHz maximum							
	Duty Ratio	Arbitrary value (can be set at 0.1µs)							
	Number of Output Points	2 points/channel							
Number of Occupied I/O Points		16 points (I/O assignment: Intelligent 16 points)							
Internal Current Consumption (5 VDC)		0.17A							
External Dimensions (H x W x D) mm		106 x 27.8 x 110							
Weight (kg)		0.12							

Notes:
1. Set the counting speed in the counting speed setting of Basic setting.
2. The counting speed is affected by the pulse rise/fall time. A count can be performed with the following counting speed. Note: Counting pulses of which the rise/fall time is long may result in an incorrect count.