



LINE SEIKI



MIERUZZO

M13-210 WATCHDOG TIMER

M13-211 PULSE FILTER

M13-212 LOGIC FILTER

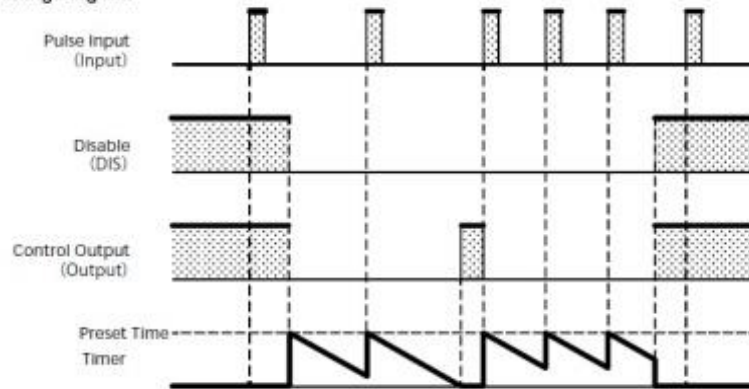


M13-210 WATCHDOG TIMER

This device monitors the interval of input signal which is taken from output of machines via a Timer.

If there is no signal received within the Preset Time, Timer is stopped and output signal is generated. By disabling input, forced start/stop of the Timer is possible.

Timing Diagram

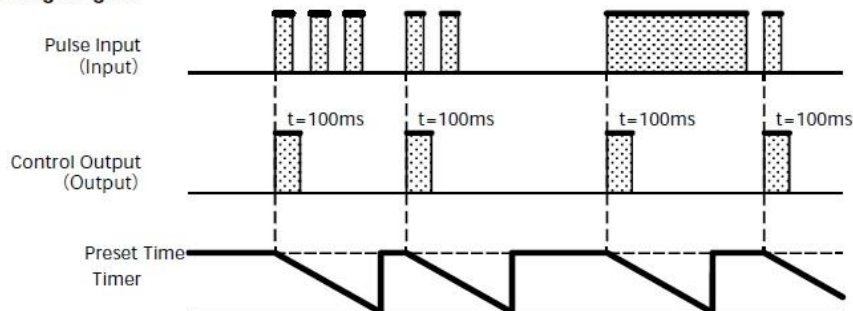


M13-211 PULSE FILTER

This device is a One-shot Timer for signal entering the Pulse Input.

Multiple Pulse input received within a Preset Time (0.1s - 999.9s) will generate a one-shot pulse output.

Timing Diagram

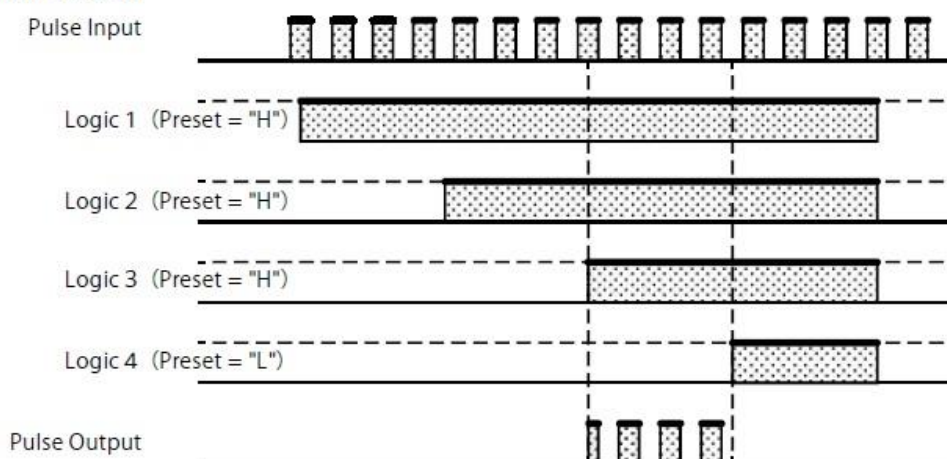


M13-212 LOGIC FILTER

This device monitors the input pulse, and passes it through as an output only when Input Logic matches Preset Logic.

Supports DIN rail type mounting.

Timing Diagram



SPECIFICATIONS

Model	M13-210	M13-211	M13-212
Function	Watchdog Timer	Pulse Filter	Logic Filter
Display	4 digit, 7-Segment LCD Digit Size : 7mm		
Setting Range	00:01 to 99.59 (mm:ss)	0.1 to 999.9 (s)	LLLL - HHHH (16 possible logic)
Input	Pulse Input (Input) Disable (DIS) Key Protect (K/P)	Pulse Input (Input) Key Protect (K/P)	Pulse Input (Input) Logic1 to 4 Key Protect (K/P)
Input Type	Non contact / Reed Input : Open Collector Input L<2V (Sink Current: approx. 1mA)		
Input Frequency	10 Hz (Pulse Input)		
Output	Non contact output : NPN open collector (DC30V 100mA max.) Relay output : 1c contact (AC/DC30V 0.5A max.) (M13-210 only)		
Output Type	Hold (Time Stop Output)	One-Shot (100ms)	Hold (Logic Match Output)
Memory	EEPROM (10 years Data Retention; 10,000 Re-write Cycles)		
Power Supply	12 to 24VDC (-15%/+10%)		
Power Consumption	approx. 1.8 W (at 24VDC)	approx. 0.4W (at 24VDC)	
Operating Humidity	45 to 85 %RH (Non-condensing)		
Operating Temperature	-10 to 50 °C (Non-freezing)		
Storage Temperature	-20 to 60°C (Non-freezing)		
Weight	approx. 130g	approx. 110g	

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