



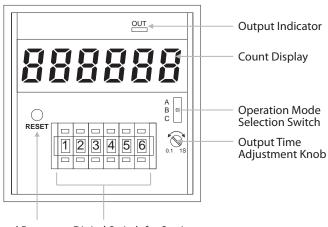
- DIN 72 x 72
- LARGE LED DISPLAY
- 6 DIGIT MODEL
- 1 LEVEL
- HIGH COUNT SPEED
- ADD / SUBTR COUNTER



MODELS

MODEL	NO. OF DIGITS	PRESET LEVEL	MEMORY	FRONT RESET
E10-166M	6	1	\cap	—
E10-166MR	6	1	\bigcirc	0

FRONT PANEL(E10-166MR)



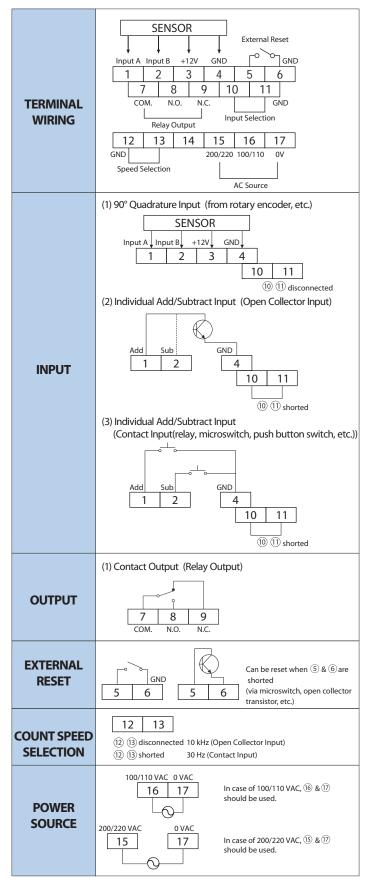


Digital Switch for Setting

SPECIFICATIONS

Display	6 Digits 7-Segment Red LED 10.16 mm (H) x 5.54 mm (W)		
Power Source	100/110 VAC or 200/220 VAC, 50/60 Hz		
Power Consumption	4.3 VA		
Preset Level	1 Level		
Setting Range	0 - 999999 **		
Input Mode	Open Collector Input L: 0 to 2 V (sink current 7mA max.)		
	Contact Input: Relay, Microswitch, etc. (sink current 7mA max.)		
Count Mode	90° Quadrature Input / Individual Add/Subtract Input		
	(simultaneous input of add and subtract is not possible)		
Count Speed	Open Collector Input: 10 kHz / Contact Input: 30 Hz		
Pulse Width	Open Collector Input: 50 µs / Contact Input: 16.6 ms		
Duty	1:1		
Output	Relay Type 1C, 250 VAC, 2A (125VA), 220 VDC 2A (60W) cosφ = 1		
Output Display	Red LED (ON when output is actuated)		
Output Time	0.1 to 1 second per shot (adjustable via front panel knob) or		
	latch output		
Reset Input	Contact (100 ms min.)		
	Open Collector (sink current 10mA max.)		
Reset Mode	Remote Reset, Auto-Reset, Front Panel Reset (E10-166MR)		
Operation Mode	Auto-reset (display resets when preset value is reached)		
	Overrun (counting continues even after preset value is reached)		
Memory	EEPROM Data Retention: approximately 20 years		
	Memory Frequency: 100,000 times max.		
Power Source for Sensor	12 VDC, 60mA max.		
Operating Temperature	-10°C to + 50°C (should not be frozen)		
Operating Humidity	35 to 85 % RH (non-condensing)		
Hi-pot Test	1500 VAC (1 minute)		
Insulation Resistance	100 MΩ min. (500 VDC Megger)		
Insulation Resistance	(on Power leads and between non-charged metal parts)		
Noise Immunity	Square wave noise from Noise Simulator		
	±2.0 kV (PowerTerminals), ±500 V(Input Terminals)		
Vibration Immunity	Malfunction: 10 to 55 Hz, double amplitude 0.5mm		
	Destruction: 16.7 Hz, double amplitude 4mm		
Shock Immunity	Malfunction: 100 m/s ² (10G) Destruction: 300 m/s ² (30G)		
Weight	550g		

When set to 0, counter will count down from displayed value to 0, when output signal occurs.



DUSTPROOF COVER (OPTION)

In case the counter will be used in a bad environmental conditions (e.g. dust / splash), a dustproof cover should be used.

If the cover is to be used, the panel cutout should be 70 x 70 mm

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OPERATION MODE SELECTION

Α

В

A	\square
В	
С	

Auto-reset, one shot output Overrun, one shot output

C Overrun, latch output

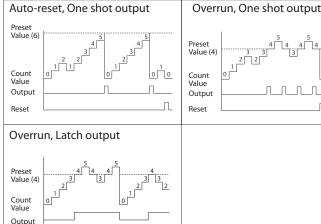
Prior to operation, please select both display mode and output mode by slide switch on front panel.

ADJUSTMENT OF OUTPUT TIME



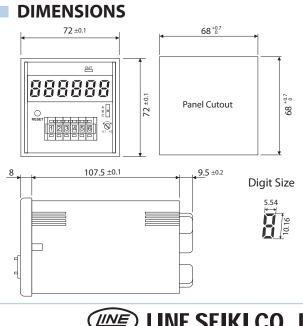
When operation mode A or B is selected, please adjust output time from 0.1 to 1 second by turning the knob below the slide switch.

OPERATION EXAMPLE



Reset

- The counter will not accept count or reset signals during the first 100 ms after power-up.
- In case Individual Add/Subtract Input is selected, additive and subtractive signals cannot be input simultaneously.
- · Shielded wires should be used for input/output leads.
- · Input/output leads should be separated from power leads as much as possible.
- Wires for short circuit (jumpers) should be as short as possible.
- When noise is observed on input or power leads, noise suppressor or power source noise filter should be used.



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