

⇒ Programming Procedure

Level-1 (User Level)

Press **SET** key for 2-3 secs. to enter this mode.

The display shows:

S E t
1 0 0 0

Note that the leftmost digit will be blinking.

To change the parameter, to say '2500' follow the steps as given:

- 1) First press the shift key '◀' until the blinking shifts to the hundredth place.
- 2) Press the increment key '▲' till the digit shows 5. the display will now show the following :

S E t
1 5 0 0

- 3) Now press the shift key '◀' again to shift the blinking to the last digit.
- 4) Repeat step 2 to increment the last digit to '2'. Now the display will show the required value:

S E t
2 5 0 0

- 5) Now, once the required value is displayed, press set key to save the new value and exit the setting mode. Now the unit will go into the standby mode where the upper display will show the process count and the lower display will show the new set count.

Level-2 (Configuration Level)

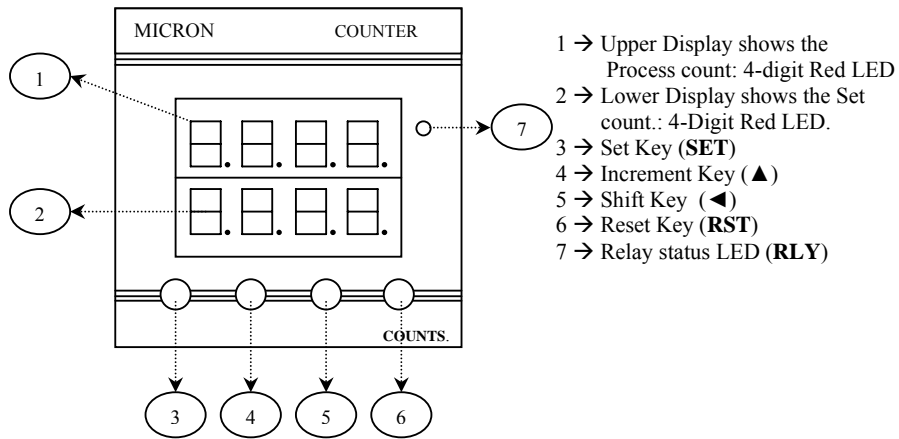
To enable the configuration Level, press and hold '▲' and '◀' keys for 3 to 4 seconds. The upper display will show 'Cont' and the lower display will show 'Yes' or 'no' message. Now set the lower display to 'Yes' by pressing the '▲' key and press 'SET' key to revert back to the normal mode. Now press 'SET' key for 2 to 3 seconds to show the set counts parameter. After setting the set counts (level-1) pressing SET key again will show the configuration level parameters. Press the '▲' and '◀' keys (similar to level-1) to change the parameters and 'SET' key to scroll to the next parameter. After the last parameter is set, the unit will come out of the configuration level on pressing the 'SET' key. The various parameters displayed are described as follows:

Displayed code on the upper display	Description of code	Limits		Description
		Min.	Max.	
S E t	Set counts	0001	9999	When the process counts reach this count, the relay turns ON.
M o d E	Auto/Manual Selection	Auto	Man	If set to Auto the relay will automatically turn Off after a specific time delay as set by the 'tMr' parameter.
t M r	Timer	0001	0099	Valid only if 'Mode' is set to 'auto'. The time (in seconds) after which the relay turns off.
F A c t	Multiplication Factor	0.001	9.999	Process counts = Input Pulses x Multiplication Factor

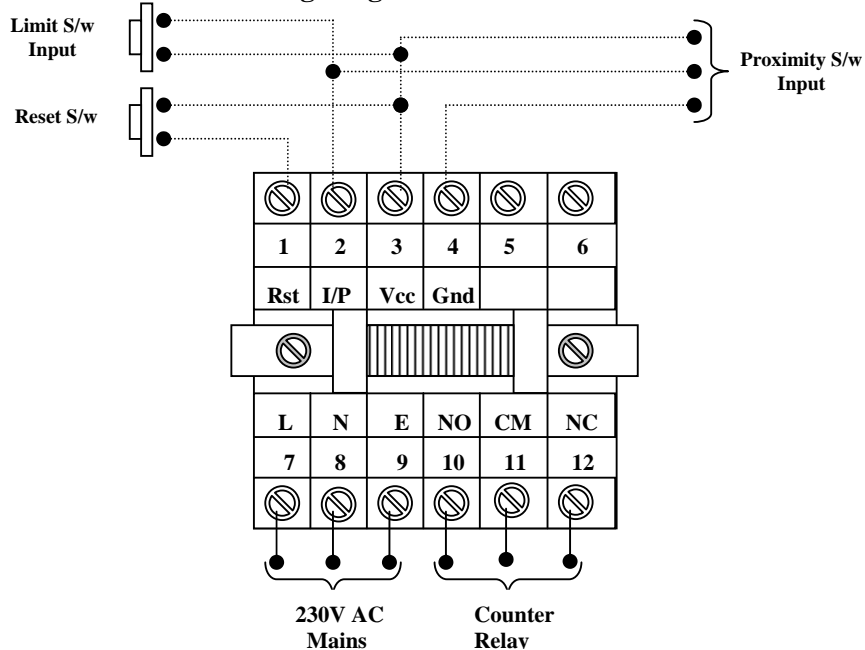
Note:

1. The second parameter 'Mode' has only two values which can be toggled between 'Auto' and 'Man' by pressing the '▲' key. The '◀' key does not work for this parameter.
2. If the length meter is to be used as a simple counter, just enter 1.000 as a multiplication factor. If the logic required is more than one pulse/count, then just enter the value which is 1/(no. of pulses/count) as a multiplication factor. For example, if the pulses/count required is 2, then enter ½ i.e. 0.500 as the multiplication factor.

⇒ Front Panel Description



⇒ External Wiring Diagram:



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Microcontroller based Length Meter Instruction Manual

⇒ Introduction

This micro-controller based counter is mainly designed taking into consideration a simplicity in operation without sacrificing the functional capability and features of a standard counter. A rugged, reliable but economical design makes it a sure choice for innumerable counter-based applications and will provide trouble-free operation for a long time. Apart from the standard counter logic, this counter also has the unique feature of *auto resetting* of the count and relay after a predetermined time delay which is settable from 1 to 99 seconds. In addition, there is another parameter 'Fact' which is the multiplication factor for using the counter as a length meter. Set this parameter to 1.000 for a simple 1 count/pulse counter operation

⇒ Specifications

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|--------------------------|---|--|
| 1. Range | : | Process Counts : 0000 ~ 9999 counts
Set counts : 0001 ~ 9999 counts
Timer : 0001 ~ 0099 seconds
Mul. Factor : 0.001 ~ 9.999 |
| 2. Input | : | Proximity or Limit S/w Trigger Input (selectable) |
| 3. Process count storage | : | memory retention of last count even on power failure |
| 4. Reset Facility | : | Through potential free contacts on backplate OR on the front by pressing RST key for 2~3 seconds. |
| 3. Memory Retention | : | About 100 years (including Process count) |
| 4. Power Supply | : | 230V AC, 50Hz. ± 10% |
| 5. Relay | : | Relay 1C/o, 5A, 230V AC resistive contacts |
| 6. Cutout Dimensions | : | 68mm(H) x 68mm(W) |
| 7. Overall Dimensions | : | 72mm(H) x 72mm(W) x 113mm(D) |

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