

MCS-833 2 Decade Counter

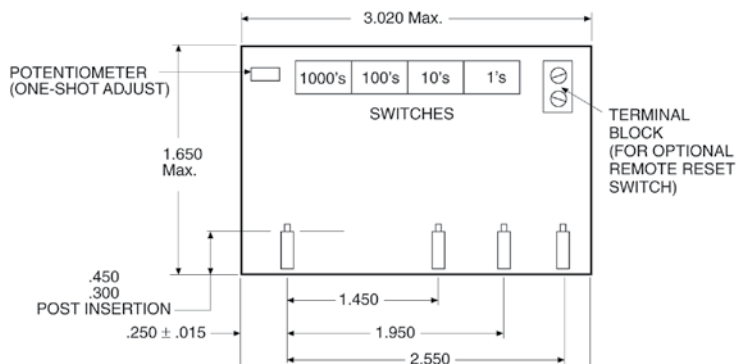
MCS-834 4 Decade Counter

Plug-In Modules for MCS-165 Series Controls

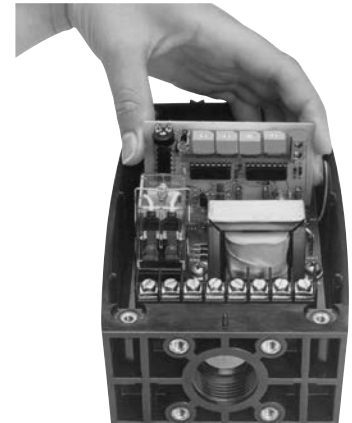
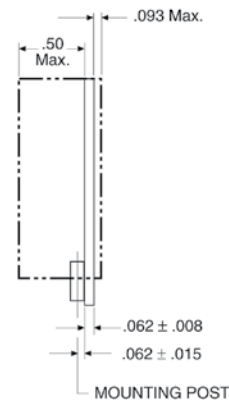
Installation Instructions

P-241-81-WE
819-0502

Outline Diagram



⚠ WARNING Failure to follow these instructions may result in product damage, equipment damage, and serious or fatal injury to personnel.



Specifications

Mounting:	Plug-in, mates directly with connector on photo electric amplifier board.										
Electrical:	<table border="0"> <tr> <td>Pin No.</td> <td>Function</td> </tr> <tr> <td>In</td> <td>Counter input</td> </tr> <tr> <td>Out</td> <td>Counter input (one-shot)</td> </tr> <tr> <td>+</td> <td>+15VDC input</td> </tr> <tr> <td>-</td> <td>Return (ground)</td> </tr> </table>	Pin No.	Function	In	Counter input	Out	Counter input (one-shot)	+	+15VDC input	-	Return (ground)
Pin No.	Function										
In	Counter input										
Out	Counter input (one-shot)										
+	+15VDC input										
-	Return (ground)										
Timing Control:	Potentiometer, adjustable										
Weight:	1 oz.										
Ambient Temperature	0-125°F. (-18 - +52°C)										
Counting Range:	MCS-833 1-99 MCS-834 1-999										
Max. Count Input:	300 Counts/sec.										
One-Shot:	Timing Range— 0.1 to 0.5 sec. Reset time— 1 millisecond										
Part Number											
MCS-833:	7400-448-021										
MCS-834:	7400-448-022										

Operation

Warner Electric MCS-833 and MCS-834 counters are optional plug-in modules which modify the basic on-off photo-electric control operation. With the module installed, the photoelectric control will have a one-shot output after receiving a presettable number of inputs. The maximum continuous counting rate will be limited by the one-shot time and can be expressed by the formula:

$$\text{Counting rate} < \frac{\text{Preset count}}{\text{One-shot time}}$$

To maximize the continuous counting rate, adjust the one-shot time to the minimum acceptable for the application.

The mode of operation will be effected by the "light/dark" switch in the photoelectric control. Objects are counted as they enter the photoelectric beam regardless of light or dark operational modes.

Installation

The photoelectric amplifier board is provided with a connector to accept the counter module. simply insert the counter, set the desired count, and adjust the one-shot output potentiometer. A terminal block is provided for an optional external reset switch. The switch, if used, should be an SPST, N.O., momentary type. This switch can reset the counter at any time in the counting cycle.

Warranty

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