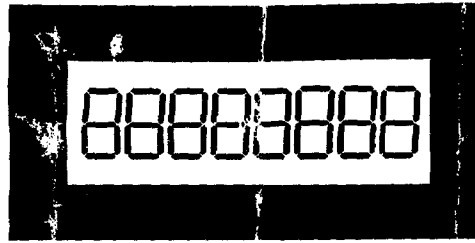


**Veeder-Root brand**  
**MicroMITE Series**

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**CE** 7999F8-302  
**Totalizing Counter**

*8 digit counter with high and low speed  
count inputs and backlighting*

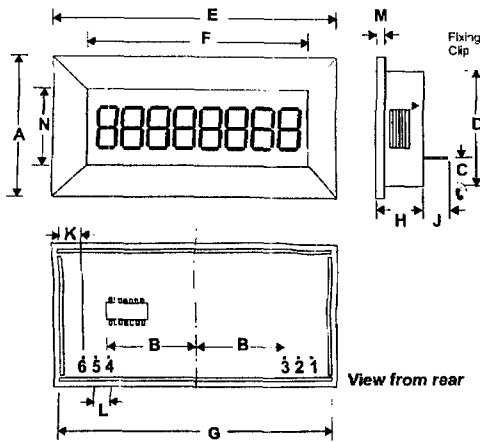
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Manual Number :702194-0001  
April 12, 1999 Rev: None

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**Danaher Controls** •1675 Delany Road • Gurnee, IL 60031  
Phone: 847.662.2666 • Fax: 847.662.6633  
Email: dancon@dancon.com  
See us on the World Wide Web  
<http://www.dancon.com>

## Dimensions

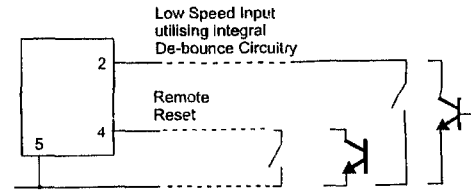


Panel cut-out: 45.3mm X 22.2mm (1.783" X 0.874")

	mm (Inches)
A	24mm (0.95")
B	14mm (0.55")
C	5mm (0.2")
D	22mm (0.87")
E	48mm (1.89")
F	37mm (1.46")
G	45mm (1.77")
H	14mm (0.55")
J	5mm (0.2")
K	3.7mm (0.15")
L	2.54mm (0.1")
M	3mm (0.12")
N	13mm (0.51")

Connection is via 2 sets of 3 pins at 0.1 inch pitch, spaced as shown. The unit is fixed to the panel using the two spring clips which are integral to the housing. The unit is the correct way up when the pins are at the bottom.

## Inputs



The low speed input (pin 2) should always be used for contact closure because this is the only input which contains de-bounce circuitry.

## Specification

### Display

8 digit, 8mm high contrast LCD characters

### Current consumption

Counting 6µA, standby 3µA, backlight 80mA max

### Operating Temperature

0°C to +50°C

### Storage Temperature

-20°C to +70°C

### Supply voltage (pin 1)

2.7 - 3.3VDC

### Low Speed Count Input (pin 2)

Contact closure/open collector input, 20Hz max, negative edge triggered, 0.7V threshold 18V max, 25mS min. pulse length

### Electronic Count Input (pin 3)

10kHz max, positive edge triggered, 0.7v threshold, 18V max, 50µS min. pulse length, TTL/CMOS compatible.

### Reset Input (pin 4)

Contact closure/open collector, negative edge triggered, 0.7V threshold 18V max, 15mS min. pulse length

### Common (pin 5)

Supply 0v and signal common.

### Backlight (pin 6)

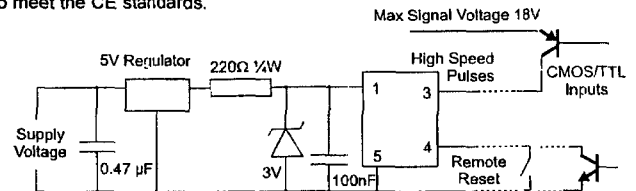
Connect to 5V DC

## Additional components required for use with a supply voltage greater than 3V

The unit can be powered from a higher DC voltage using the external circuit shown. For a 5v supply omit the regulator. Use the regulator for a supply in the range 8 - 30v.

### Note:

This product is ideally suited to battery powered applications. Should the product be used in a circuit where an external power source is used, then the complete system will require separate approval to meet the CE standards.



Mount the 100nF (transient suppression) capacitor as close to the unit as possible.

**Warranty:** Standard products manufactured by the Company are warranted to be free from defects in workmanship and material for a period of one year from the date of shipment, and products which are defective in workmanship or material will be repaired or replaced, at the option of the Company, at no charge to the Buyer. Final determination as to whether a product is actually defective rests with the Company. The obligation of the Company hereunder shall be limited solely to repair and replacement of products that fall within the foregoing limitations, and shall be conditioned upon receipt by the Company of written notice of any alleged defects or deficiency promptly after discovery within the warranty period and in the case of components or units purchased by the Company, the obligation of the Company shall not exceed the settlement that the Company is able to obtain from the supplier thereof. No products shall be returned to the Company without its prior consent. Products which the Company consents to have returned shall be shipped F.O.B. to the Company's factory. The Company cannot assume responsibility or accept invoices for unauthorized repairs to its components, even though defective. The life of the products of the Company depends, to a large extent, upon the type of usage thereof, and THE COMPANY MAKES NO WARRANTY AS TO THE FITNESS OF ITS PRODUCTS FOR SPECIFIC APPLICATIONS BY THE BUYER NOR AS TO PERIOD OF SERVICE UNLESS THE COMPANY SPECIFICALLY AGREES OTHERWISE IN WRITING AFTER THE PROPOSED USAGE HAS BEEN MADE KNOWN TO IT.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE.

