



Description

The Model 53 Electronic Totalizer with 7 or 8 LCD digits is ideal as a replacement for electromechanical totalizers or where external power is not available. Powered by an internal lithium battery these products are highly reliable and provide the user with a choice of several options; with or without reset and multiple count ranges for optimized performance. The case is available in either tan or black.

Features

- Lithium battery
- Choice of non-reset or remote reset
- Switch (no-voltage), 3-30VDC, 20-250VAC/VDC

Options

- Case color
- Mounting adapter plates
- 8 digits
- 5003-001S - gasket
- Low AC voltage (4-30 VAC)

Specifications

**Figures:** 7 or 8 LCD figures, 0.32" [8mm] high  
**Reset:** Remote, manual, and non-reset  
**Speed:**  
**7 Digit:** 0-40 counts/second [min. 12.5ms - on, 12.5ms - off]  
 0-150 counts/second [min. 3.3ms - on, 3.3ms - off]  
**8 Digit:** 0-35 count/second [min. 14.3ms - on, 14.3ms - off]  
**Inputs:** Switch (no-voltage), 3-30VDC, 20-250VAC/VDC  
 Vih 20VAC/3VDC minimum  
 Vil 3VAC/1VDC maximum  
**Power:** Self-powered (internal lithium battery)  
**Mounting:** Panel with clip  
**Terminations:** Terminal block, or connector with 8" [200mm] wire leads  
**Battery Life:** ~20years

**Weight** 2 oz. [57g]  
**Temperature:**  
**Operating:** -4°F to +140°F [-20°C to +60°C]  
**Storage:** -40°F to +165°F [-40°C to +75°C]  
**Humidity:** 0 to 95% RH, non-condensing  
**Vibration**  
**Operating:** 10 to 55Hz, 0.01" [0.25mm] double amplitude  
**Non-Operating:** 10 to 55Hz, 0.03" [0.75mm] double amplitude  
**Shock**  
**Operating:** 10G  
**Non-Operating:** 30G  
**Dielectric:** 1000VAC 50/60Hz for 1 minute  
**Accuracy:** 100% [Provided Signal Meets Stated Parameters]  
**Approvals:** UL Recognized, CSA Certified, CE Compliant

Note: When interfacing the Model 53 with a Solid State Relay or AC Sensor, the leakage current needs to be considered. Contact the factory or see the application note at [www.redingtoncounters.com](http://www.redingtoncounters.com) for further information.

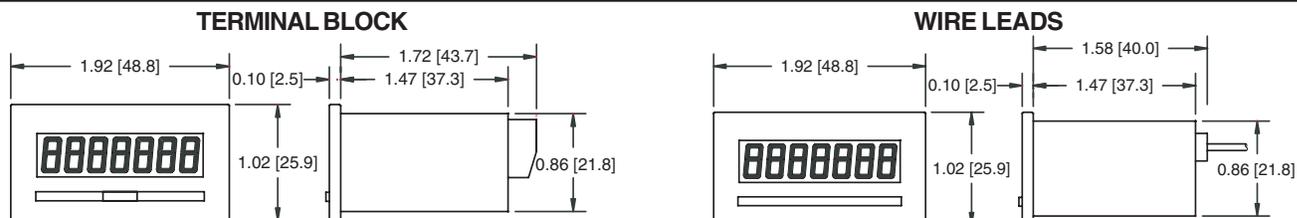
Models

Models	Reset			Input			Speed/cps		Terminations		Color	
	remote	none	manual	switch	3-30VDC	20-250VAC/VDC	40/150	40	term. block	8" wire leads	Tan	Black
<b>5300-0000</b>	X			X			X		X		X	
5300-0001	X			X			X		X			X
<b>5300-0100</b>	X		X	X			X		X		X	
5300-0101	X		X	X			X		X			X
<b>5300-1000</b>	X				X		X		X		X	
5300-1001	X				X		X		X			X
<b>5300-1100</b>	X		X		X		X		X		X	
5300-1010	X				X		X			X	X	
5300-1011	X				X		X			X		X
<b>5300-2000</b>	X					X		X	X		X	
5300-2001	X					X		X	X			X
<b>5300-2100</b>	X		X			X		X	X		X	
5300-2200		X				X		X	X		X	
5300-2201		X				X		X	X			X

\* Items in bold are normally in factory stock.

All part numbers shown are for 7 digit models. Please contact the factory for information on 8 digit models.

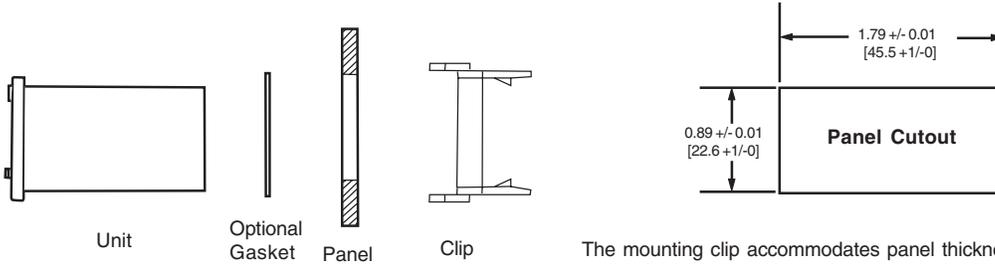
Dimensions





Operating Instructions

MOUNTING:

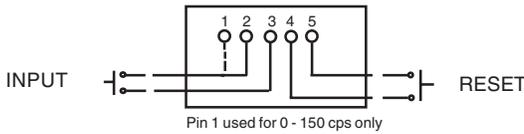


The mounting clip accommodates panel thicknesses up to 1/4" [6.4mm].

Panel adapter plates are available in flush and 2 hole mount to fit various panel cutouts. Consult the factory for availability.

WIRING:

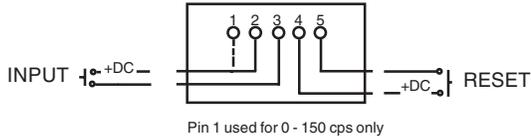
SWITCH (non-voltage)



Color code for the 8" [203mm] lead wires (24AWG) are:

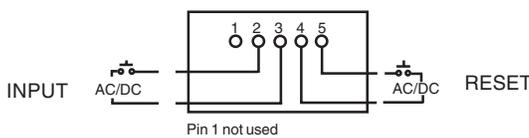
- 1 - Yellow
- 2 - Blue
- 3 - Black
- 4 - Violet
- 5 - Gray

3 - 30 VDC



Terminal block will accept wire sizes from 14 to 24AWG.

20 - 250VAC/VDC



3 - 30VDC units are protected for transient voltages up to 50 volts with pulse widths of up to 1 second at a 1% duty cycle (including reverse polarity).

The operating AC frequency range is 40 to 400Hertz.

NOTES:

INPUT / RESET PARAMETERS

To insure proper performance from totalizers the following minimum input durations are required:

0 to 35 cps totalizer	Minimum	14.3 ms "on"	14.3 ms "off"	The count is activated on the falling edge.
0 to 40 cps totalizer	Minimum	12.5 ms "on"	12.5 ms "off"	The count is activated on the falling edge.
0 to 150 cps totalizer	Minimum	3.3 ms "on"	3.3 ms "off"	The count is activated on the rising edge.

All resettable totalizers can be reset by a pulse with a minimum duration of 6 milliseconds.

DUAL RANGE TOTALIZER PROTECTION FEATURE:

Dual range totalizers have a built-in range protection feature. This feature will protect the totalizer from receiving a false signal from the unused input line. Once a totalizer has received an input from pin #1 or pin #2, it will only accept inputs from that pin until the unit has been reset. For example, if a totalizer is run in the low speed range and it is determined that a high speed range is preferred, simply switch the input from pin #2 to pin #1 and reset the totalizer to de-activate this range protection feature. Conversely, if a totalizer is run in high speed range and it is determined that a low speed range is preferred, simply switch the input from pin #1 to pin #2 and reset the totalizer.

SPECIAL WIRING OPTION

There is an internal connection between pin 3 and pin 5, a single wire can be used by connecting it to either pin 3 or pin 5. This option does not apply for units with input of 20 - 250VAC/VDC or manual reset enable.

OPTIONAL INPUTS:

Optional control circuitry (such as transistors) may be used as inputs provided that such circuitry provides the required parameters of the model used.

Applications

Number of Parts



Shear



Packaging Line

