



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 for further information.

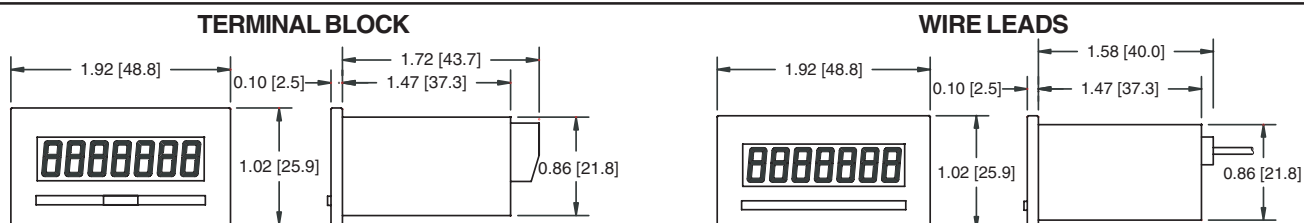
Models

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
5300-0000	X			X			X		X		X	
5300-0001	X			X			X		X			X
5300-0100	X		X	X			X		X		X	
5300-0101	X		X	X			X		X			X
5300-1000	X				X		X		X		X	
5300-1001	X				X		X		X			X
5300-1100	X		X		X		X		X		X	
5300-1010	X				X		X			X	X	
5300-1011	X				X		X			X		X
5300-2000	X					X		X	X		X	
5300-2001	X					X		X	X			X
5300-2100	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.

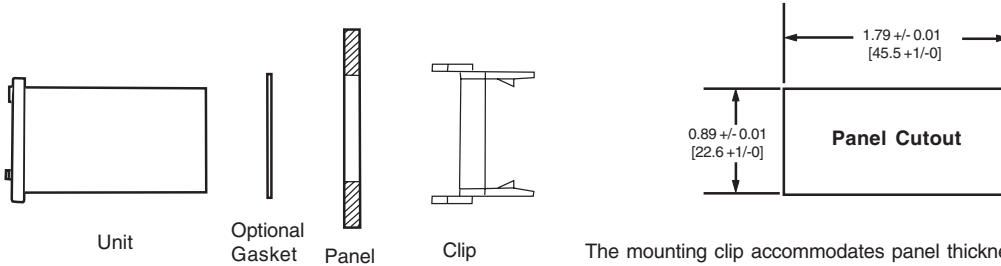
Dimensions





Operating Instructions

MOUNTING:

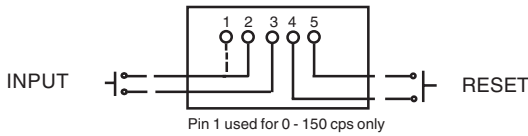


The mounting clip accommodates panel thicknesses up to 1/4" [6.4mm].

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

WIRING:

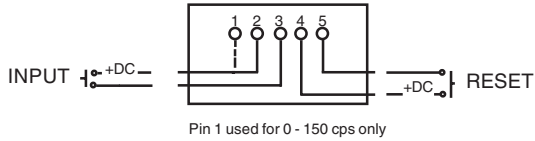
SWITCH (non-voltage)



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

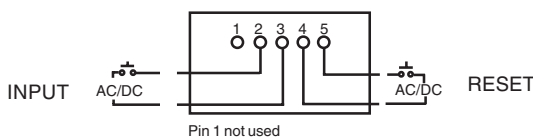
- 1 - Yellow
- 2 - Blue
- 3 - Black
- 4 - Violet
- 5 - Gray

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

