

Item # 5300-2000 Beige Case



Beige Case

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.

Specifications

Model No.	53
Mounting	Panel with clip
Display	7 8 LCD figures, 0.32 inch (8mm) high
Display Height	0.32 Inch
Display Height	8 mm
No. of Digits	7
Vih	20VAC/3VDC min.
Vil	3VAC/1VDC max.
Input	20-250 VAC/VDC
Battery	Self-powered (internal lithium battery)
Battery Life	20 years (approx.)
Reset Type	Remote
Speed	0-40 counts/second (min. 12.5ms - on, 12.5ms - off)
Shock	Operating: 10G, Non-operating: 30G
Vibration	Operating: 10 to 55 Hz. 0.01 inch (0.25mm) double amplitude, Non-operating: 10 to 55 Hz. 0.03 inch (0.75mm) double amplitude
Humidity	0 to 95% RH, non-condensing
Operating Temperature	-4 to +140 °F
Operating Temperature	-20 to +60 °C
Storage Temperature	-40 to +165 °F
Storage Temperature	-40 to +75 °C

Approvals	UL Recognized, CSA Certified, CE Compliant
Termination	Terminal block
Weight	2 oz
Weight	57 gm
Dielectric	1000VAC 50/60Hz for 1 minute
Accuracy	100% (Provided Signal Meets Stated Parameters)
Color	Tan
Stock Availability	Yes



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.

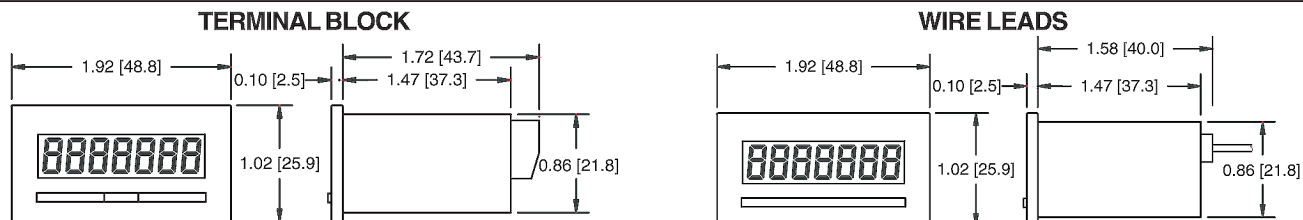
Models

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.

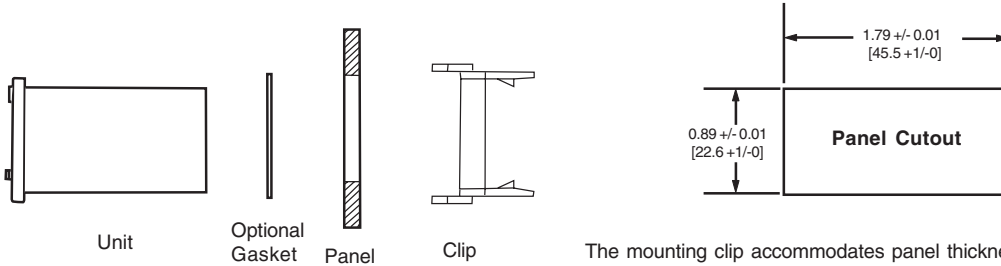
Dimensions





Operating Instructions

MOUNTING:

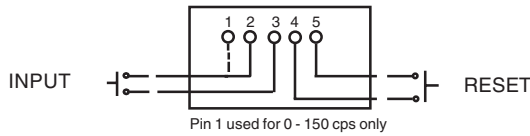


The mounting clip accommodates panel thicknesses up to 1/4" [6.4mm].

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

WIRING:

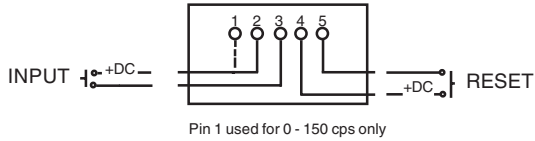
SWITCH (non-voltage)



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

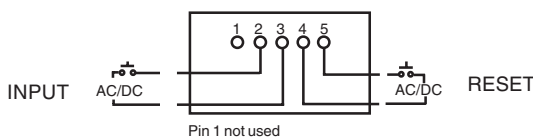
- 1 - Yellow
- 2 - Blue
- 3 - Black
- 4 - Violet
- 5 - Gray

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

