



File# E199939







- Easily programmed from the front panel
- Remote reset capability
- Input variety:

   Quadrature, Switch, TTL, CMOS, NAMUR, PNP, NPN
- Software functions include:

Password
Display Scaling
Set Point Programming
Decimal Point Selection

- 5A Relay Outputs
- Optional 12DCV Excitation

The S662 is a multi-function counter that can be easily configured to operate either in a dual mode or in a totalizing/batch mode, each with separate scaling and reset functions.

When functioning in the dual mode, full direction control is maintained for the totalizing and batch counts.

In the totalizing batch mode, the secondary value (batch count) is incremented after the primary totalizing count has completed its cycle.

The counter is powered from 120 or 240VAC and has a non-volatile EEPROM to retain all programming and count information when the power source is removed or interrupted.

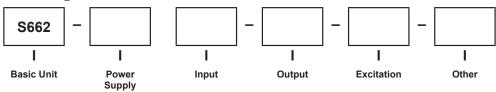
An option 12DCV excitation output module can provide power for external sensors.

This versatile counter has latching, boundary or timed (0.01 to 599.99 seconds) output modes.

Rev. 03-25-15



### **Ordering Information**



Select From Each One Below		
Basic Unit		
	S662	
Power Supply		
1	120 ACV	
2	240 ACV	
Input		
1	Standard	
2	Quadrature	
Output		
0	None	
1	One Relay	
2	Two Relays	
Excitation		
0	None	
1	12DCV (100mA Max Current)	
Other		
0	None	



Specifications		
DISPLAY		
Туре	6-digit, 7-segment, red LED	
Height	0.56" (14.2mm)	
Decimal Point	User-programmable	
Count Direction	"+" indication implied, "-" indication displayed	
Display Range	-99,999 to +999,999	
Output Indicators	1 and 2	
POWER REQUIREMENTS		
AC Voltages	120 or 240VAC, ±10%	
Power Consumption	3VA	
	17.11	
INPUT RATINGS		
Current Sinking	10KΩ 5% Resistor pull-up to (9.0 - 16DCV) $\pm$ 10%	
Current Sourcing	5.1ΚΩ 5% Resistor pull-down to common	
Minimum Pulse Width	~5µs	
Low Pass Filter	<200Hz	
Low Bias	VLT = 1.6V ±10%	
High Bias	VLT = 5.0V ±10% VUT = 7.0V ±10%	
Count Rate	20KHz (Pulse Max) 5KHz (Quadrature X4 Max)	
Maximum Voltage Input		
A,B, and User	30DCV (Max)	
User Input	VLT ≤ 0.9DCV, VUT = 3.15DCV (max)	
	(Second channel reset) Count on the second channel is reset when the User Input is pulled low	
ENVIRONMENTAL		
Operating Temperature	0°C to +40°C	
Storage Temperature	-10°C to +60°C	
Relative Humidity Ambient Temperature	0 to 80% non-condensing for temperatures less than 32°C, decreasing linearly to 50% at 40°C 25°C	
	±100ppm/°C	
Temp. Coefficient (per °C) Warm-up Time	15 minutes	
vvarin-up riine	13 minutes	
MECHANICAL		
Bezel	3.93" x 2.04" x .52" (99.8mm x 51.8mm x 13.2mm)	
Depth	3.24" (82.3mm)	
Panel Cutout	3.62" x 1.77" (92mm x 45mm)	
Case Material	PBT-ABS	
Weight	9oz (255.1g)	
	1 ( )	

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### **Mounting Requirements -**

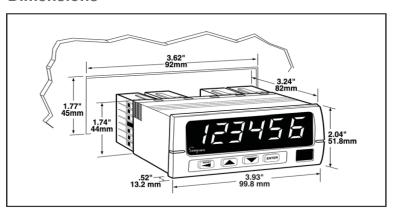
The S662 series 1/8 DIN counters require a panel cutout of 1.77" (45mm) high by 3.62" (92mm) wide.

To install the counter into a panel cutout, remove the clips from the side of the meter.

Slide the meter through your panel cutout, then slide the mounting clips back on the meter.

Press evenly to ensure a proper fit.

#### **Dimensions**







#### Accessories available for the S662

#### Chariot

The Chariot is used to mount most cube-style quadrature encoders and measuring wheels. Made of anodized aluminum, the chariot includes mounting hardware and selectable pivotal points. Wheels, tires, and flexible shaft couplings are sold separately.

Catalog No. 46012

#### Flexible Shaft Couplings

The one-piece flexible coupling connects the shaft of a cube-style encoder to an ancillary equipment shaft without worry of misalignment of rotary frequency. The coupling ensures minimum windup, minimum rotary oscillation, and no hysteresis.

Coupling: For connecting an encoder to a 3/8" shaft. Catalog No. 46002

**Coupling package:** For connecting an encoder to 1/4" or 5/16" diameter shaft. Package includes: One flexible coupling (1/2" I.D.) and three reducing inserts (1/4", 5/16", 3/8"). **Catalog No. 46003** 





#### Tire Durometer

A Simpson 12" circumference anodized aluminum measuring wheel is the right choice to complete the setup of a length measurement system.

Whether the application requires one or two, Simpson's measuring wheels will perform accurately and reliably throughout the measuring process.

Also included on the measuring wheel is a printed alignment scale which assists in the installation and measurement of the length measurement system.

Simpson offers four replaceable durometer tires that consist of a black tire that has a longer life span and three non marking tires. The three non marking tires are for delicate materials such as plastics, textiles, wood, metal and paper to prevent tearing, damage or marking of delicate materials.

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80A, black tire; longer service life for plastics, metals. Catalog No. 46004

83A, non-marking tire for textiles, medium textures. Catalog No. 46005

92A, non-marking tire for plastics, metals, coarse wood. Catalog No. 46006

70A, non-marking tire for soft textiles. Catalog No. 46007

5 Feet Cable Assembly Catalog No. 46013

10 Feet Cable Assembly Catalog No. 46014

15 Feet Cable Assembly Catalog No. 46015

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**Authorized Distributor** 

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### Simpson:

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