



- 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
- Optional 12DCV Excitation

5A Relay Outputs

The S663 is a multi-function counter that allows the end user to track the rate (speed) of a product and continuously monitor the product quantity for a given process. The count and rate displays have separate programmable decimal point settings and scaling values.

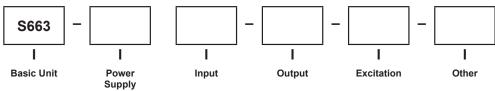
The counter is powered from 120 or 240VAC and has a non-volatile EEPROM to retain all programming and count information when the power source is removed or interrupted.

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

Optional field-replaceable single/dual relay modules enhance the counter from a passive display device to an integral control element for your application. This versatile counter has latching, boundary or timed (0.01 to 599.99 seconds) output modes.



### **Ordering Information**



Sel	ect From Each One Below
	Basic Unit
	S663
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



DISPLAY Type 6-digit, 7-segment, red LED Height 0.56" (14.2mm)  Decimal Point User-programmable Count Direction "+" indication implied, "-" indication displayed
Type 6-digit, 7-segment, red LED  Height 0.56" (14.2mm)  Decimal Point User-programmable  Count Direction "+" indication implied, "-" indication displayed
Type 6-digit, 7-segment, red LED  Height 0.56" (14.2mm)  Decimal Point User-programmable  Count Direction "+" indication implied, "-" indication displayed
Height     0.56" (14.2mm)       Decimal Point     User-programmable       Count Direction     "+" indication implied, "-" indication displayed
Decimal Point         User-programmable           Count Direction         "+" indication implied, "-" indication displayed
Count Direction "+" indication implied, "-" indication displayed
Diamley Benne
<b>Display Range</b> -99,999 to +999,999
Output Indicators 1 and 2
POWER REQUIREMENTS
AC Voltages 120 or 240VAC, ±10%
Power Consumption 3VA
INDUT DATINGS
INPUT RATINGS
Current Sinking $10K\Omega$ 5% Resistor pull-up to (9.0 - 16DCV) ±10%
Current Sourcing 5.1KΩ 5% Resistor pull-down to common
Minimum Pulse Width ∼5µs
Low Pass Filter <200Hz
Low Bias   VLT = 1.6V ±10%   VUT = 3.6V ±10%   VLT = 7.6V ±10%   VLT = 7.6V ±10%   VLT = 7.6V ±100%   VLT =
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)
(Rate channel reset) Count on the rate channel is reset when the User Input is pulled low
(Nate diametreset) obtain on the rate diametre reset when the obstringut to panel tow
ENVIRONMENTAL
Operating Temperature 0°C to +40°C
Storage Temperature -10°C to +60°C
<b>Relative Humidity</b> 0 to 80% non-condensing for temperatures less than 32°C, decreasing linearly to 50% at 40°C
Ambient Temperature 25°C
Temp. Coefficient (per °C) ±100ppm/°C
Warm-up Time 15 minutes
MECHANICAL
<b>Bezel</b> 3.93" x 2.04" x .52" (99.8mm x 51.8mm x 13.2mm)
<b>Depth</b> 3.24" (82.3mm)
Panel Cutout 3.62" x 1.77" (92mm x 45mm)
Case Material PBT-ABS
<b>Weight</b> 9oz (255.1g)



### Mounting Requirements -

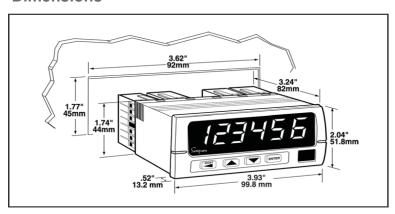
The S663 series 1/8 DIN counters require a panel cutout of 1.77" (45mm) high by 3.62" (92mm) wide.

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 S663

#### 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.

5

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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