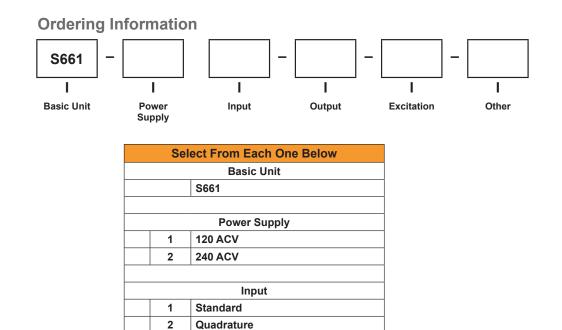




- Easily programmed from the front panel
- Remote reset capability
- Input variety: Quadrature, Switch, TTL, CMOS, NAMUR, PNP, NPN
- Software functions include: Password Display Scaling Set Point Programming Decimal Point Selection
- 5A Relay Outputs
- Optional 12DCV Excitation





Output

Excitation

Other

12DCV (100mA Max Current)

None

None

None

One Relay

Two Relays

0

1 2

0

1

0



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 REQUIREMENT	rs						
AC Voltages	120 or 240VAC, ±10%						
Power Consumption	3VA						
•	·						
INPUT RATINGS							
Current Sinking	10KΩ 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%						
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 $VLT \le 0.9DCV$ , $VUT = 3.15DCV$ (max)							
	(Display Hold) Display is frozen when the User Input is pulled low						
ENVIRONMENTAL							
Operating Temperature	0°C to +40°C						
Storage Temperature Relative Humidity	-10°C to +60°C						
	0 to 80% non-condensing for temperatures less than 32°C, decreasing linearly to 50% at 40°C						
Ambient Temperature Temp. Coefficient (per °C)	25°C						
	±100ppm/°C						
Warm-up Time	15 minutes						
MECHANICAL							
MECHANICAL Bezel 3.93" x 2.04" x .52" (99.8mm x 51.8mm x 13.2mm)							
Depth	3.93" x 2.04" x .52" (99.8mm x 51.8mm x 13.2mm)						
Panel Cutout	3.24" (82.3mm) 3.62" x 1.77" (92mm x 45mm)						
Case Material	3.62" x 1.77" (92mm x 45mm)						
	PBT-ABS						
Weight	9oz (255.1g)						

Typically used in applications involving speed, the S661 rate counter is capable of counting in four different time modes; hours, minutes, seconds, and seconds/thousand (msec).

The msec rate mode increases the frequency resolution to .001Hz within the range from 1 to 999.999Hz.



Mode	Range (implied scale	Typical Update Period	Min. Input Frequency	Max. Input Frequency	Display Resolution
0	MSec (Hz x 1000)	1.0 sec	1 Hz	30 KHz	0.001 Hz
1	Sec (Hz)	0.5 sec	2 Hz	30 KHz	1 Hz
2	Min (Hz x 60)	3 sec	20 Counts / Min	1.2 Million Counts / Min	1 Pulse per Minute
3	Hr (Hz x 3600)	90 sec	40 Counts / Hr	3.0 Million Counts / Hr	1 Pulse per Hour

## **Mounting Requirements -**

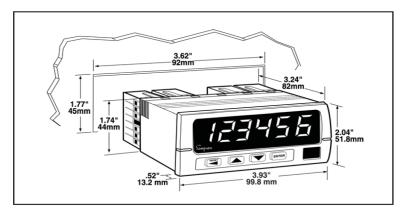
The S661 series 1/8 DIN counters require a panel cutout of 1.77" (45mm) high by 3.62" (92mm) wide.

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 S661

#### 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.

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