S661 Preset Rate Counter





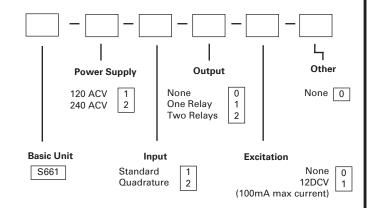


- Easily programmed from the front panel
- Remote reset capability
- Input variety: Quadrature, Switch, TTL, CMOS, NAMUR, PNP, NPN
- Software functions include:

Password Display Scaling Set Point Programming **Decimal Point Selection**

Optional 12DCV Excitation

Ordering Information



Specifications

DISPLAY

Type 6-digit, 7-segment, red LED

Height 0.56" (14.2mm) **Decimal Point** User-programmable

"+" indication implied, "-" indication displayed **Count Direction**

Display Range -99,999 to +999,999

Output Indicators 1 and 2

POWER REQUIREMENTS

AC Voltages 120, 240VAC, ±10%

Power Consumption 3VA

INPUT RATINGS

10K Ω 5% Resistor pull-up to (9.0 - 16DCV) ±10% **Current Sinking Current Sourcing** $5.1 \text{K}\Omega$ 5% Resistor pull-down to common

Minimum Pulse Width

Low Pass Filter <200Hz

VLT = 1.6V ±10% VUT = 3.6V ±10% Low Bias **High Bias** $VLT = 5.0V \pm 10\% \ VUT = 7.0V \pm 10\%$

Count Rate 20KHz (Pulse Max) 5KHz (Quadrature X4 Max)

Maximum Voltage Input

A, B, and User 30DCV (Max)

INPUT

User Input (Display Hold) Display is frozen when the User

Input is pulled low.

VLT \leq 0.2DCV guaranteed low, VUT = 3.0DCV (max) Standard Input

Quadrature Input $VLT \le 0.9DCV VUT = 3.15DCV (max)$

ENVIRONMENTAL

Operating Temp. 0°C to $+40^{\circ}\text{C}$ Storage Temp. -10 °C to +60°C

Relative Humidity 0-80% non-condensing for temperatures less **Ambient Temperature** than 32°C, decreasing linearly to 50% at 40°C

Temp. Coefficient (per °C) 25°C

Warmup Time ±100ppm/°C 15 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)

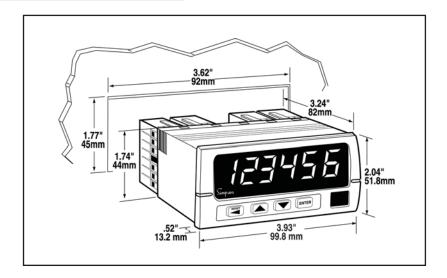
Case Material PBT-ABS Weight 9oz (255.1g)

	Range	Typical	Min. Input	Max. Input	Display
Mode	(implied scale)	Update Period	Frequency	Frequency	Resolution
0	MSec (Hz x 1000)	1.0 sec	1Hz	30KHz	0.001Hz
1	Sec (Hz)	0.5 sec	2Hz	30KHz	1Hz
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

Counter Accessories



Dimensions - S660, S661, S662, S663, S664



Accessories



Chariot

The Chariot is used to mount most cubestyle 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.

A Simpson 12" 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.

Description

Coupling: For connecting an encoder to a 3/8" shaft 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").

Tire Durometer

Catalog No.

80A, black tire; longer service life for plastics, metals
83A, non-marking tire for textiles, medium textures
92A, non-marking tire for plastics, metals, coarse wood
70A, non-marking tire for soft textiles
46007

Catalog No.

46002

46003

Mouser Electronics

Authorized Distributor

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Simpson:

\$661-1-1-0-0-0 \$661-1-1-2-0-0 \$661-1-1-2-1-0 \$661-1-1-0-1-0