S664 Frequency Counter

- ***Easily programmed from the front panel***
- ***Remote Reset capability***
- ***Input variety: Quadrature, Switch, TTL, CMOS, NAMUR, PNP, NPN***
- ***Software functions include:***
  - ***Password***
  - ***Set Point Programming***
  - ***Display Scaling***
  - ***Decimal Point Selection***

This counter offers a wide input frequency range from 1Hz to 35KHz, and four display ranges of 99.99Hz, 999.9Hz, 9999Hz, and 35KHz.

The easiest to use counter in the S660 counter series, the S664 offers 12 DCV, 100mA sensor excitation and requires no programming to use.

After the counter is mounted and wired, selecting the appropriate frequency range is the only setup required. One of four frequency ranges may be selected to measure from 1Hz to 35KHz.

Mounting Requirements

The S660 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.

MADE IN THE USA
www.simpsonelectric.com

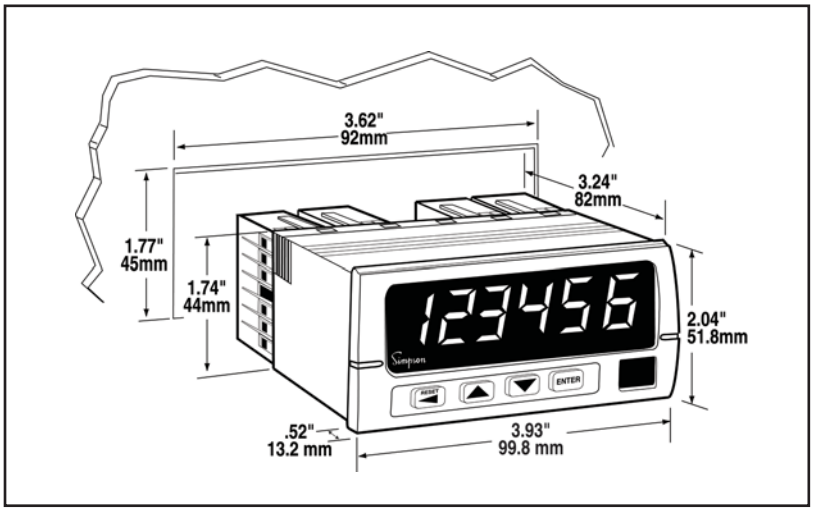
Specifications

DISPLAY	
Type	4-digit, 7-segment, red LED
Height	0.56" (14.2mm)
Decimal Point	Position according to scale selection
Count Direction	"+" indication implied, "-" indication displayed
Display Range	-999 to +9999
Output Indicators	1 and 2
POWER REQUIREMENTS	
AC Voltages	120, 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	~2µs
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	35KHz (Pulse Max) 8.75KHz (Quadrature X4 Max)
Maximum Voltage Input A, B, and User	30DCV (Max)
ENVIRONMENTAL	
Operating Temp.	0°C to +40°C
Storage Temp.	-10°C to +60°C
Relative Humidity	0-80% 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
Warmup Time	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)

Ordering Information

Basic Unit	Power Supply	Input	Output	Excitation	Other
S664	120 ACV 1 240 ACV 2	Standard 1 Quadrature 2	None 0	None 0 12DCV 1 100mA Max Current	None 0

Dimensions - S660, S661, S662, S663, S664



Accessories

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.

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	Catalog No.
Coupling: For connecting an encoder to a 3/8" shaft	46002
Coupling package: For connecting an encoder to 1/4" or 5/16" diameter shaft*	46003

*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	46004
83A, non-marking tire for textiles, medium textures	46005
92A, non-marking tire for plastics, metals, coarse wood	46006
70A, non-marking tire for soft textiles	46007