Simpson®

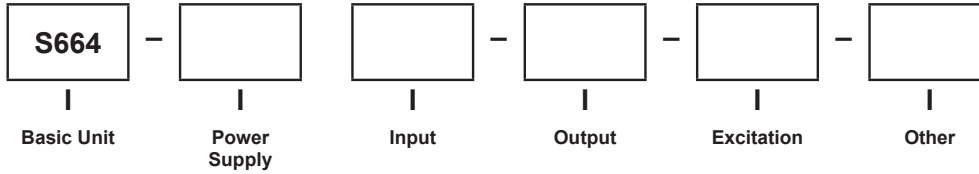MADE IN THE USA SINCE 1936 | RELIABILITY BEYOND MEASURE

S664 Frequency Counter

File# E199939 CE (UL) c(UL)

- **Remote reset capability**

- **Input variety:**
  Switch, TTL, CMOS, NAMUR, PNP, NPN

- **Optional 12DCV Excitation**

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.

Rev. 03-25-15

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S664 Frequency Counter

Ordering Information

S664	–			–		–		–	
Basic Unit		Power Supply		Input		Output		Excitation	Other

Select From Each One Below		
Basic Unit		
	S664	
Power Supply		
1	**120 ACV**	
2	**240 ACV**	
Input		
1	**Standard**	
2	**Quadrature**	
Output		
0	**None**	
Excitation		
0	**None**	
1	**12DCV (100mA Max Current)**	
Other		
0	**None**	

S664 Frequency Counter

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 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	~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 Temperature	0°C to +40°C
Storage Temperature	-10°C to +60°C
Relative Humidity	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

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)

Mounting Requirements -

The S664 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