



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	Display Scaling
Set Point Programming	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.



Panel Cutout Dimensions on page A23

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

