S663 Preset Rate/Totalizer Counter

Simpson

CE UL c UL

- **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

The S663 is a multi-function counter that allows the end user to track the rate (speed) of a product and continuously monitor the product quantity for a given process. The count and rate displays have separate programmable decimal point settings and scaling values.

The counter is powered from 120 or 240VAC and has a non-volatile EEPROM to retain all programming and count information when the power source is removed or interrupted. An option 12DCV excitation output module can provide power for external sensors.

Optional field-replaceable single/dual relay modules enhance the counter from a passive display device to an integral control element for your application. This versatile counter has latching, boundary or timed (0.01 to 599.99 seconds) output modes.

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.

Specifications

DISPLAY

Type	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 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	~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)

INPUT

User Input	(Rate channel reset) Count on the rate channel is reset when the User Input is pulled low.
Standard Input	VLT ≦0.2 DCV guaranteed low, VUT = 3.0 DCV(max)
Quadrature Input	VLT ≦ 0.9 DCV VUT =3.15 DCV (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

Power Supply	**Output**	**Other**
120 ACV [1]	None [0]	None [0]
240 ACV [2]	One Relay [1]	
	Two Relays [2]	

Basic Unit	**Input**	**Excitation**
S663	Standard [1]	None [0]
	Quadrature [2]	12DCV [1]
		(100mA Max Current)