

# 8900D Series



## FEATURES:

- Self-powered Totalizing Counter & Timer
- Up/Down count input
- 8 digit LCD display, Backlight with external 5VDC
- High speed solid state, slow speed contact closure and high voltage inputs
- 10k Hz max. Count speed
- NEMA 4X / IP 65 display
- **RoHS** & **CE** Compliant

## DESCRIPTION:

The 8900D series consists of a small, lithium battery powered counters and timers that are panel mount.

The **8905D** & **8905DV** totalizers are powered by an internal lithium battery with a standard operation life expectancy of 10 years. The 8905D accepts inputs from solid-state devices, + 18 VDC max., as well as non-voltage contact closure inputs. The 8905DV accepts AC & DC voltage inputs. The front reset button can be disabled if desired. A programmable decimal point allows for additional versatility.

The **8905Q** 10-30VDC powered totalizer that accepts NPN quadrature inputs allowing for a wide range of applications including length measurement. Counts with a ratio of 1:1.

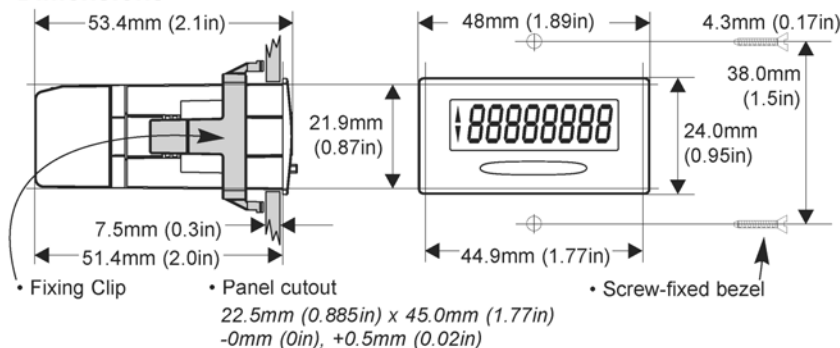
The **8925D** & **8925DV** timers are elapsed timers equipped with a 10-year lithium battery. They can be programmed to time in Seconds, Min. & Sec, Hrs. & Min. or Hrs. & 100ths. The front reset button can be disabled if desired. They accept a variety of inputs making them suitable for a wide range of applications.

## SPECIFICATIONS:

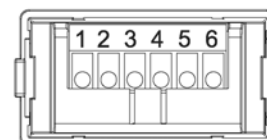
| Model             | 8905D  | 8905DV   | 8905DQ  | 8925D  | 8925DV   |
|-------------------|--|--|---|--|--|
| Function          | Totalizer  |  |   | Timer  |  |
| Display           | 8 digit, LCD, 9mm (0.354") high characters, Backlight with external 5VDC, programmable 3 position decimal point via jumpers.   |  |   | 8 digit, LCD, 9mm (0.354") high characters, Backlight with external 5VDC                             |  |
| Supply            | Permanent Internal lithium battery   |  | 10-30VDC  | Permanent Internal lithium battery   |  |
| Battery life      | 10 year (calculated) at 20°C   |  |   |  |  |
| Count Input       | 1) High Speed: solid state: NPN, TTL/CMOS +18 VDC max. input.<br>2) Slow Speed: Contact closure/NPN open collector   | High Voltage: 5-110VDC ±10%, 10-240VAC ±10%,                             | Quadrature: NPN input, 2.5kHz max, TTL/CMOS Compatible. Ratio 1:1                     | Contact closure/NPN open collector to time. Break contact to stop timing, minimum pulse width 1 sec. | High Voltage: 5-110VDC ±10%, 10-240VAC ±10%, minimum pulse width 1 sec   |
| Input speed (max) | 1) High Speed: 10k Hz<br>2) Slow Speed: 30 Hz  | 3) High Voltage 10 Hz  | 4) Quadrature: 2.5kHz   |  |  |
| Timing            | —  |  |   | Seconds, Min. & Sec., Hrs. & Min. or Hrs. & 100ths, selectable via jumpers                           |  |
| Reset             | 1) Non-voltage: contact closure only (minimum 15mSec)<br>2) Front push button*   | 1) High Voltage: 5-110VDC ±10%, 10-240VAC ±10%,<br>2) Front push button* | 1) Non-voltage: contact closure only (minimum pulse 15mSec).<br>2) Front push button* | 1) Non-voltage: contact closure only (minimum pulse 15mSec).<br>2) Front push button*                | 1) High Voltage: 5-110VDC ±10%, 10-240VAC ±10%,<br>2) Front push button* |
| Direction input   | Contact closure/NPN •Up: not connected or>2V (logic 1), maximum 18V •Down: connected to common or<1V (logic 0) •Direction signal must change>5µS before Count signal |  |   |  |  |
| Housing           | Black and clear polycarbonate  |  |   |  |  |
| Mounting          | Panel mount spring clip or screw panel adapter   |  |   |  |  |
| Connection        | Screw terminals  |  |   |  |  |
| Protection        | Front can be sealed to IP 65 / NEMA 4X   |  |   |  |  |
| Temperature       | Operating: 14 to 140°F (-10 to 60°C) Storage: -4 to 140°F (-20 to 60°C)  |  |   |  |  |

\* The front reset button can be disabled if desired

## Dimensions



Rear view screw terminals



**Warning:** this unit contains a lithium battery and must not be disposed of in a fire or exposed to temperatures outside the range -20°C to +70°C