



**Two-line LCD display with
LED backlighting...
compact, fits 1/16 DIN
panel cutout**

A new standard of performance and functionality in a compact preset counter. Four models offer single or dual preset count capability, or a single preset counter with a presettable batch counter.

The backlit LCD display provides simultaneous count and preset indication. The use of annunciators and simple key sequences makes operator changes quick and easy. A variety of count sources are accommodated, including relay and push-button contacts, photocells and proximity switches, and uni- or bidirectional incremental encoders. The solid state outputs can interface to light duty devices and PLCs, while the relay contacts offer heavy duty load switching. Setup and installation is simplified through configuration switches, pluggable terminal strip connectors and a unique "no tools required" panel mount clamp.

- Two line display indicates Count and Preset values simultaneously
- Backlit LCD provides high visibility in high or low ambient light environments
- Removable terminal strip connectors for easy installation and service
- Compact design requires only 48 mm of panel space
- Built-in medium duty, form C (SPDT) relays
- Accessory sensor power supply
- Reset to zero or set to a number operation
- Two level program and preset data security
- Accepts current sinking or sourcing devices
- Key reset, remote reset and auto reset available
- Add / subtract or bidirectional count inputs
- Nonvolatile RAM provides 10+ years data retention
- NEMA 4/IP65 front panel sealing

The Squire family of preset counters combines state of the art circuitry and electronic assembly techniques with an ergonomic package design that results in the most cost effective, high performance counter value on the market.

SPECIFICATIONS

Display: Transflective LCD, LED backlight; Counter: 6 digit, 7 mm; Preset/ Batch Count: 6 digit, 4 mm; 14 input/output/status indicators

Presets: 6 digits

Power Supply: 95 to 130 VAC, 50/60 Hz, 6 VA max. (SQxxx0); 190 to 260 VAC (SQxxxE); 10 to 26 VDC, 0.4 A max. (all models)

Count Input: Switch Input: contact closure; 20 Hz max.; 25 ms min. pulse width

Pulse Input: Sourcing, low: < 2 VDC or open, high: > 3 VDC; 2.4 kHz max.; 200 μ s min. pulse width; 10 k Ω to Common

Pulse Input: Sinking, low: < 2 VDC, high: > 3 VDC or open; 2.4 kHz max.; 200 μ s min. pulse width; 4.7 k Ω to +VDC

Count Modes: Add/Subtract (anti-coincidence): Signal A input adds; Signal B subtracts

Bidirectional Quadrature: Adds when A leads B

Calibrator: 0.0001 to X.XXXX input pulse multiplier

Output: Relay output: Form C, 5 amp resistive at 24 VDC or 120 VAC; 3 amp resistive at 240 VAC; 1/8 H.P. at 120/240 VAC

Solid State: NPN Open Collector transistor; 100 mA max.; 30 VDC max.

Assignment: Output 1 turns on at Preset 1, turns off at manual Reset; Output 2 turns on at Preset 2, turns off at manual Reset; (Output 2 turns on at Counter=0, turns off at Reset if switch #3 is down)

Output Time: 0.01 to 99.99 seconds momentary, or latch

Reset: Push-button (selectable enable), remote or automatic

Accessory Power: 12 VDC \pm 25%, 100 mA maximum

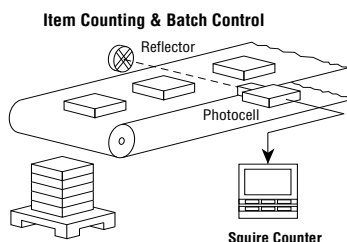
Operating Temperature: 32° to 112 °F (-0 to 50 °C)

Electrical Connections: Pluggable screw terminals

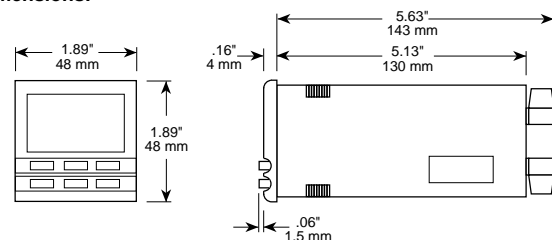
Model No.	Count Rate	Count Modes	Preset 1	Preset 2	Batch Preset	Calibrator & Dec. Pt.
SQC11000	20 Hz	add/sub	yes	no	no	no
SQC12000	2.4 kHz	a/s, quad	yes	no	no	yes
SQC22000	2.4 kHz	a/s, quad	yes	yes	no	yes
SQB22000	2.4 kHz	a/s, quad	yes	no	yes	yes

For 230 VAC operation, change sixth digit in model number from 0 to E

Typical Applications:



Dimensions:



Panel Cutout: 1.77" x 1.77" (45 mm x 45 mm).