## **Quasar Bi-directional & Programmable** Counter/Controller



The Quasar Counter is a rugged, full-featured industrial family of counters. A special design that enables all presets at the same time is what sets this model apart for applications that do not follow a fixed sequence. The Quasar connects easily to FSI encoders and other controls/sensors and is well-suited for diverse application types such as:

- Counting
- Length & distance measurement
- Position displays
- Position controls
- Programmable limit switches
- Cut-to-length controls
- Count and batch control

## Each counter features:

- An easy-to-program front panel
- Capability to reset remotely
- A variety of Inputs: Quadrature, Switch, TTL, CMOS, NAMUS, PNP, NPN
- 5 amp relay outputs
- Software functions that includes:
  - Password
  - Count Scaling (00.0001 to 99.9999)
  - ✓ Set Point Programming
  - ✓ Decimal Point Selection
- Optional 12VDC Power Supply for encoder or sensor

## MODEL CODE SELECTOR\* QUA-112 -11 -00 Outputs **Number of Inputs Encoder Power Supply** None 0 Single Channel 1 One 1 0 None Quadrature Two 12VDC 1

## **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 +999,000

**Output Indicators** 1 and 2

**POWER** 

**AC Voltages** 120, 240VAC, + 10%

**Power Consumption** 4 watts

**INPUT RATINGS** 

**Current Sinking**  $10 \text{K}\Omega$  5% Resistor pull-up

to (9.0-16DCV) +10% **Current Sourcing** 5.1KΩ 5% Resistor pull-

down to common

Min. Pulse Width 5us

Low Pass Filter <200Hz

VLT=1.6V +10% VUT=3.6V +10% Low Bias VLT=5.0V <u>+</u>10% VUT=7.0V <u>+</u>10% High Bias 20KHz (Pulse max) 5KHz **Count Rate** 

(Quadrature X4 Max)

Maximum Voltage Input

30 Volts DC (Max) A,B and User

INPLIT

**User Input** (Display Hold) Display is

frozen when the User Input is

pulled low.

VLT ≤0.2DCV guaranteed low, Standard Input

VUT = 3.0DCV (max)

Quadrature Input  $VLT \leq 0.9DCV VUT = 3.15 DCV (max)$ 

**ENVIRONMENTAL** 

Operating Temp. 0°C to 40°C -10' to 60°C Storage Temp.

0-80% non-condensing for Relative Humidity

temp. less than 32°C, decreasing

linearly to 50% at 40°C

MECHANICAL

Bezel 3.93" X 2.04" X .53"

(99.8mmX51.8mmX13.2mm)

Depth 3.24" (82.3mm)

Panel Cutout 3.62" X 1.77" (92mmX45mm)

Case Material PRT-ARS Weight 9oz (255.1g)

This unit features several operation modes including: count/direction/quadrature, reverse quadrature, add/add, add/subtract and subtract/subtract. Optional relay outputs transform the counter into a controller.

\*If uncertain which model to purchase, choose the universal model # QUA-1122-1112-00



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