POWER
- Internal Battery: 3V, Lithium.
- Life expectancy: 5 years +.

BACKLIGHT
- 10-30 VDC @ 30 mA max.
- (Derate operating temperature 1°C/Volt above 17VDC.)
- Reverse polarity protected.

PHYSICAL
- Operating Temperature: -20° to 70°C.
- Storage Temperature: -20° to 70°C.
- Operating Humidity: 60% Non-condensing.
- Weight: 2.2 oz. net.
- Display Size: .43” high.
- Front Panel Rating: NEMA 4X when mounted with gasket provided.
- Case Material: Cycolac X-17.

TOTALIZER
- Type: UP counting.
- Digits: 8

COUNT ACCURACY
- 100% when operated within specifications.

DC COMMON (Terminal 1)

COUNT INPUTS
Input B (Terminal 2) Low speed input designed for contact closures to DC common.
- Speed: 0 to 20 Hz.
- Min Low Time: 10 milliseconds.

Input A (Terminal 3) High speed input requiring a voltage source such as a current sourcing sensor or a current sinking sensor used with the provided pull up resistors.
- Speed: 0 to 10 kHz.
- Min Low Time: 80 microseconds.
- Min High Time: 20 microseconds.
- Input Impedance: 2kΩ above 5 VDC.
- Voltage Thresholds: Low 0 to 1.2 VDC.
- High 2.0 to 28 VDC.
- Max High 28 VDC.

RESET INPUT (Terminal 4) designed for contact closures to DC common.
- Min. Low: 0.25 to 1 sec. (reset is maintained).
- The required pulse width varies with count speed, scale factor and number of digits displayed.
- Voltage Thresholds: Low 0 to 0.4 VDC.
- High 2.0 to 28 VDC.

FRONT PANEL RESET ENABLE (Terminal 5)
- Operation: Level sensitive (maintained).
INTRODUCTION

Your 5330X-400 is an UP counting totalizer with a high-contrast eight-digit LCD display. The front-panel reset key can be disabled. A remote-reset terminal is provided.

APPLICATIONS

This totalizer is intended for simple totalizing applications. One count input pulse per item is necessary. The only decisions to be made are:

1. Do you use the high or low speed input?
2. Do you want the front panel reset button active?

OPERATION

The totalizer display has lead-zero blanking. No decimal point is available.

MOUNTING

The front-panel reset button comes disabled from the factory. To enable the button, install a jumper wire from terminal 5 to ground, terminal 1.

Note: The reset terminal on the rear panel is still active when the front reset button is disabled.

PROGRAMMODE

There is no program mode for this model.
**WIRING RECOMMENDATIONS**

Following these suggestions will increase noise immunity and extend the life of the product.

**Cable:** The connection between the count source and the totalizer should be made with a two-conductor shielded cable. The shield should be connected to earth ground at one end only. The connecting cable should not be run in conduits with cables switching high inductive loads.

**Relay Coil Suppression:** If a relay contact is used as a count source, the relay coil should be suppressed. This can be accomplished with an RC network for AC coils or a diode for DC coils. The Durant RC suppressor (38091-400) may be used.

**Mounting:** The totalizer should not be mounted near a solenoid or other inductive devices. Enough ventilation should be supplied to keep the totalizer operating within the temperature specifications.

**BATTERYSAFETY**

The lithium battery that powers your device contains inflammable materials such as lithium organic solvent, and other chemical ingredients. Explosion or fire may result if the battery is not handled correctly. To avoid an accident follow these guidelines:

- Do not stack or jumble up batteries.
- Do not heat batteries above 95°C.
- Do not disassemble batteries.
- Do not recharge lithium batteries.
- Do not apply pressure to, or deform batteries.
- Do not solder to batteries.
- Do not dispose of batteries in fire.
- Insert battery with correct polarity.

**WIRING DIAGRAMS**

**CONTACT CLOSURE COUNT INPUT**

**SOLID STATE COUNT INPUT**

**CURRENT SOURCING SENSOR**

**SOLID STATE INPUT**

**CURRENT SINKING SENSOR**

**REMOTE RESET**

**FRONT PANEL RESET ENABLE & BACKLIGHT WIRING**
REPLACEMENT PARTS
36367-202 Battery
46066-210 Gasket
53300-241 Mounting Clip
28772-200 Mounting Screw

COURIER SERIES ACCESSORIES
ES9513-RS Rotary Contactor
49750-400 Power Supply (+15VDC)
38091-400 Count Source RC Suppressor

Devices requiring external power for correct operation
48770-401, -402 Inductive Proximity Sensor (8mm, 12mm, 18mm)
48771-400 Diffuse-Reflective Photoelectric Sensor
48771-401 Retro-Reflective Photoelectric Sensor
48771-402 Thru-Beam Photoelectric Sensor
Emitter
48771-404 Thru-Beam Photoelectric Sensor Receiver
(Thru-beam emitter and receiver must be used together)
38150-XXX Standard Duty, Single Channel Shaft Encoder (XXX denotes pulses per revolution. Example: 38150-060 for 60 pulses/rev)
48370-XXX Heavy Duty, Single Channel Shaft Encoder (XXX denotes pulses per revolution. Example: 48370-060 for 60 pulses/rev)

OTHER COURIER SERIES PRODUCTS
53300-401 Add/Subtract Totalizer (Solid State Inputs)
53300-402 Add/Subtract Totalizer (Contact Inputs)
53300-403 Quadrature Indicator/Totalizer
53300-404 Ratemeter
53300-405 Ratemeter/Totalizer
53302-401 Add/Subtract Totalizer w/Backlight (Solid State Inputs)
53302-402 Add/Subtract Totalizer w/Backlight (Contact Inputs)
53302-403 Quadrature Indicator/Totalizer w/Backlight
53302-404 Ratemeter w/Backlight
53302-405 Totalizer/Ratemeter w/Backlight

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