

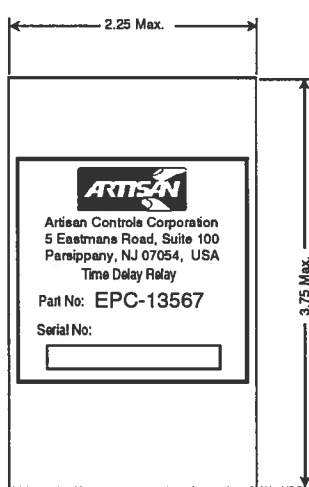


Solid State Timers and Controllers

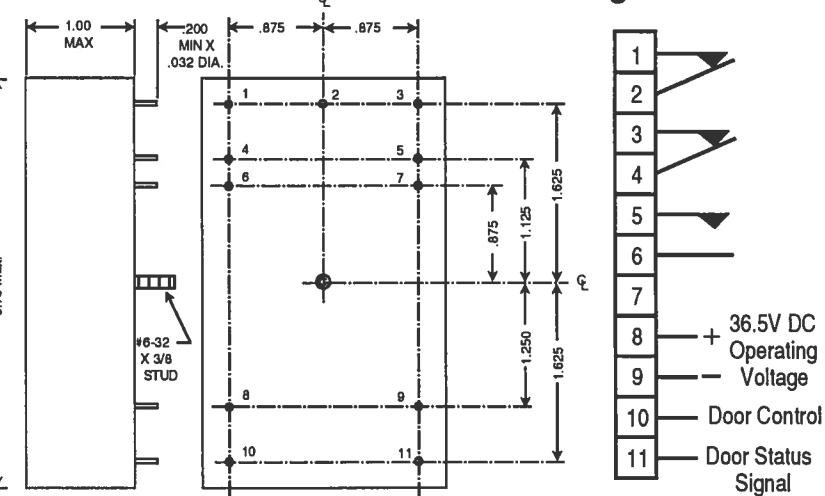
EPC-13567 Timing Control Logic Module

The EPC-13567 is an electronic timing and logic module that monitors two signals and controls three isolated sets of output contacts in accordance with a set of rules based on the levels of the two input signals designated "Door Control" and Doors Status." With both signals high, the output contacts are de-energized. When the Door Control signal goes low, the output contacts remain de-energized until three & one-half seconds after the Door Control signal returns high, at which time they energize if the Doors Status signal does not also go high. Should the Door Status not go high within another three & one-half seconds, the output contacts de-energize again for three & one-half seconds. Both the Door Control and the Doors Status signals must be high for this cycle to stop and keep the output contacts de-energized.

Mechanical



Wiring



Logic & Timing Diagrams

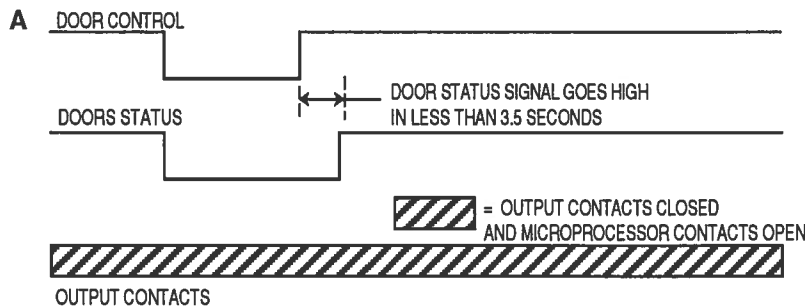


Diagram "A" illustrates a normal sequence of operation in which the DOOR STATUS signal goes high less than 3.5 seconds after the DOOR CONTROL signal returns high

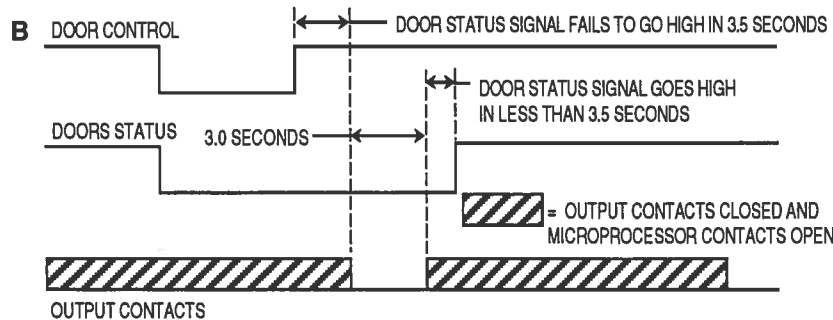


Diagram "B" illustrates a sequence of operation in which the DOOR STATUS signal goes high greater than 3.5 seconds after the DOOR CONTROL signal returns high

Data Sheet Revision Date: November 8, 1999.

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Solid State Timers and Controllers

Specifications

Operating Voltage: 21VDC to 41V DC (36.5V DC nominal).

Operating Current: 250mA maximum at 36.5V DC.

Ripple Voltage: 100 millivolts maximum.

Timing Mode: Timing & Logic in accordance with description & examples above.

Door Control Delay: Three and one-half (3.5) seconds after Door Control signal returns high, output contacts de-energize unless Doors Status signal also goes high.

Doors Status Delay: Three (3.0) seconds after output contacts energize, output contacts de-energize if Door Status signal remains low.

Timing Tolerance: $\pm 10\%$.

Timing Repeatability: $\pm 2\%$.

Main Output: Two (2) isolated SPST-NC rated for 5A continuous at 36V DC. Electrical life is estimated to be greater than 100,000 operations at 36V DC resistive.

Output To Microprocessor: One (1) SPST-NO rated for 2A at 36V DC. This set of contacts closes when the main output contacts open, and open when the main output contacts close.

Input Signals: Two (2) Door Control & Doors Status.

Signal Level Definitions: A signal is considered low (OFF) if less than 6V DC. A signal is considered high (ON) if greater than 10 V DC.

Transient Protection: Protected by silicon transient suppressors which respond to transients within 1×10^{-12} seconds to a peak pulse power dissipation of 1500 watts, with transient surge currents to 200 amperes for durations up to 1/120 second at 25° C. Maximum transient voltage protection is 6000 volts as delivered through a source resistance of 30 ohms with a maximum duration of 8.3 milliseconds.

Operating Temperature: 20°F to +140°F.

Storage Temperature: -20°F to +160°F.

Humidity: 35% - 100%.

Construction: Encapsulated module. PC board material of FLGE062C2/2A1A per MIL-P-55110PC, manufactured in accordance with UL 796 and is rated UL 94VO. Eleven external pins are of the offset type incorporating a .070/.080 diameter ring positioned on the far side of the PC board to prevent accidental pulling out. Pins are manufactured from .031 diameter "Oxygen Free Copper Wire" OFHC/CDA102. Tin plated 100 micro inches min.

Serial Numbering: Five (7) digit code - first four (4) digits = year, last three (3) digits are sequentially numbered starting at 001. Each new year resets the last three digits to 001. Example: 1999001 through 1999XXX, 2000001 through 20000XXX.

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Ordering Information Specify: *EPC-13567*

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