



RY502A Universal Dual Door Timer relay



Architects' And Engineers' Specifications

The Universal Dual Timer Relay(s) shall be Alpha Communications® **RY502A** or equivalent. Once the **RY502A** is activated by an input of 8 to 24VAC, (typically from a door opener output of an intercom or video-intercom system), the **RY502A** will first send 16VAC (and activate a 'Form C' relay) for the outer door for a programmed period of time. The **RY502A** will then automatically switch the voltage and 'Form C' relay to the inner door opener or mag lock, also for a programmed period of time. delay times shall be programmable by means of two (2) separate timer controls. **RY502A** shall allow for an optional 'man trap' capability, whereas the 2nd (inner) door will not activate until a contact is activated, indicating the 1st (outer) door is closed Relay shall surface mount right to the finished wall and shall be installed in a suitable environment that is free from excessive dirt, dust, temperature, humidity, grease and water.

All wiring to relay shall be low-voltage Class II wiring, installed as per all federal, state, and local electrical and building codes.

RY502A Universal Dual Timer Relay

The Alpha Communications® **RY502A** Universal Dual Timer Relays are used for a variety of applications. The primary use is for an entry intercom (or video-intercom) system, where there is an outdoor entry panel and an outer door and then an inner door which must be controlled by electric door openers or mag locks. The **RY502A** can be connected to a standard 8 to 24VAC electric door opener output from many intercom amplifiers to allow connection to a magnetic or different type or voltage door opener. It can also be used to provide two (2) independent 'Form C' relay contacts from virtually any 8 to 24VAC input source. The **RY502A** is powered directly from a standard 16VAC transformer (model **SS102A** or **SS105B**).

Once the **RY502A** is activated by an input of 8 to 24VAC, the **RY502A** will first send 16VAC (and activate a 'Form C' relay) for the outer door for a programmed period of time. The **RY502A** will then automatically switch the voltage and 'Form C' relay to the inner door opener or mag lock, also for a programmed period of time.

The **RY502A** relays are designed to easily surface mount right onto the finished wall by means of self-stick mounting tabs or by using the mounting holes provided for screw mounting.

Connections are positive screw terminal type, using a barrier type terminal connector strip.

Features

- Easily Installs Right on Finished Wall Surface
- Operates on Safe Low-Voltage Class II Wiring
- Provides Two (2) 'Form C' Type Timed Relay Outputs from a single input
- Convenient Barrier Type Screw Terminal Connections

Specifications

Dimensions:	4.25"W (108mm) x 3.20"H (82mm) x .75"D (20mm)
Relay Type:	Dual 10.0 Amp (@30V) SPDT Relays with protective covers
Power Required:	16VAC, 10VA (from SS102A or SS105B transformer)
Connections:	Barrier Type Screw Terminal Connectors.
Trigger Power:	8VAC to 24VAC

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