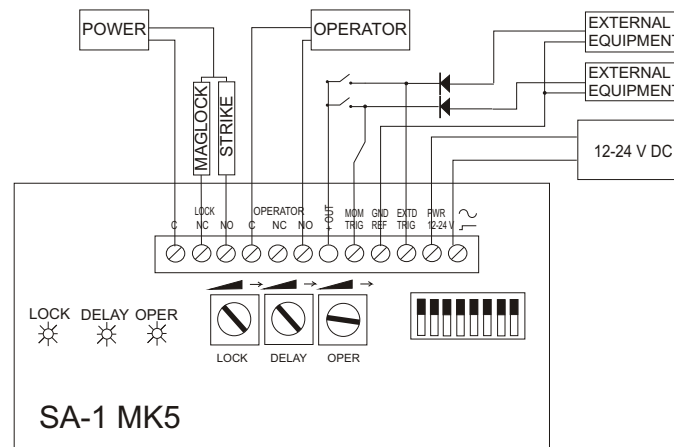


# SA-1 MK5 Door Sequencer

The SA-1 is a highly versatile interface designed to connect and coordinate incompatible electrical equipment. Originally designed for automatic door access and security situations, the features built into the SA-1 make it perfect for many other applications.



## Features:

- Multiple operating modes - sequence and release
  - sequence and hold while voltage still applied
  - sequence and hold till next trigger
- Separate triggers for sequencing and hold open applications
- Dry contact and/or hot trigger input on either trigger
- Stuck momentary trigger leaves the extended trigger functioning
- noise filtering on the triggers to protect against false triggering
- 2 relays for controlling external equipment
- A wide range of power supply options
- No surprises on power-up. The SA-1 always behaves the same.
- Visible indicators for status of timers and relays

# A quick look at what it can do for you:

<b>Compatible lock types</b>	The <b>SA-1</b> can work with <i>virtually any</i> electric lock. An adjustable inter-stage delay (the time between the lock relay and the operator relay) means <i>any</i> lock type from electric strike to electric bolt can be accommodated. Form 'C' lock relay contacts allow both fail secure and fail safe locks to be used.
<b>Compatible operator types</b>	A form 'C' operator relay allows triggers that are not restricted to those that depend upon closing a contact.
<b>+OUT terminal</b>	The +OUT terminal provides a convenient way to trigger the <b>SA-1</b> and power a LED to indicate power.
<b>Hot triggers</b>	Some applications require interfacing a building enterphone or other device to the door operator. Many enterphones do not provide a dry contact output, only a hot (voltage) output. The <b>SA-1</b> will use any trigger voltage between 6 and 48 volts AC or DC as if it were a dry contact ... <b>no interface relays required.</b>
<b>Momentary trigger</b>	The momentary trigger is used to open a door for simple access or egress. Lock, delay, and operator timers are independently adjustable. Once the lock and operator timers expire, the lock and operator relays release - <i>even with a stuck operator button...no more burned intermittent duty strikes - no more emergency service calls due to stuck open doors.</i>
<b>Extended trigger</b>	Some applications require an operator assisted door to be open for an extended period of time. The <b>SA-1</b> makes this easy by providing the EXTENDED trigger terminal. As long as the trigger is active the operator relay stays active. Intermittent duty strikes are not a problem. Flick a switch and the lock relay times out - just as with momentary trigger.
<b>Latching mode</b>	A flick of a switch changes the <b>SA-1</b> into a latching relay. The 1st push of a button starts the sequence. The lock relay will release at the end of its time (if you have that option selected). Both relays will release when the button is pressed again.
<b>Power requirements</b>	The <b>SA-1</b> does not need any special power supply. In fact, it will use any voltage between 12 and 24 volts - AC or DC. There are not even any + or - labels on the power terminals. -- just wire it in. No accidental blowouts. No extra DC power supplies. Just borrow a little power from the operator or strike transformer. All the power supply

## SA-1 OPERATING SPECIFICATIONS

<b>Operating voltage:</b>	<b>12 to 24 volts, AC or DC</b>
<b>Stand by current:</b>	<b>12V - 8mA, 24V - 18mA</b>
<b>Operating current:</b>	<b>12V - 48mA, 24V - 63mA</b> <b>(with both lock and operator relays active )</b>
<b>Trigger input:</b>	<b>less than .5 mA, 6-48VDC, 12 - 48 VAC</b>
<b>Power protection:</b>	<b>high capacity surge suppression on circuit board</b>
<b>Relay protection:</b>	<b>MOV included</b>
<b>Timers:</b>	<b>1/4 to 30 seconds</b>
<b>Relay contacts:</b>	<b>2 A @ 24V, form 'C'</b>
<b>Operating Temperature:</b>	<b>-10 to 45 C</b>
<b>Size:</b>	<b>105mm (4.1") wide, 85 mm (3.4") high, 15 mm (0.7") deep</b>

The SA-1 also carries a **16** month warranty.