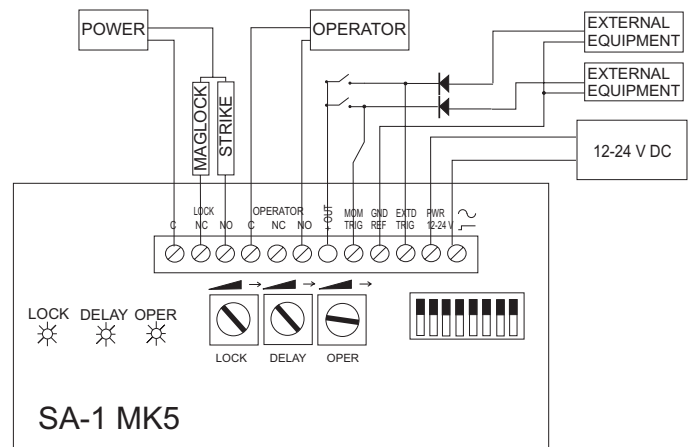


# SA-1 MK5 Door Sequencer

***The SA-1 has gone digital. Our redesigned SA-1 still looks the same and installs the same. However, It behaves even better than the MK4.***

## *Enhancements:*

- A flick of a switch turns it into a latching relay
- Improved power supply for added stability
- Stuck momentary trigger leaves the extended trigger functioning
- No surprises on power-up. The SA-1 always behaves the same
- Use AC or DC for trigger inputs. No need for auxiliary relay



## **LATCHING RELAY OPERATION:**

First push of the button starts a cycle. The Lock and Delay timers start right away. After the Delay timer expires, the Operator relay turns on and stays on. A switch setting on the board determines whether or not the Lock relay will release after the Lock timer expires.

The next push releases both relays immediately even if the timers haven't expired.

With the latching relay operation triggered off the momentary input, the extended trigger remains operational. The activation of the extended trigger will override the latching relay.

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

- Compatible lock types** The **SA-1** can work with *virtually any* electric lock. An adjustable inter-stage delay (the time between the lock relay and the operator relay) means *any* 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.
- Compatible operator types** A form 'C' operator relay allows triggers that are not restricted to those that depend upon closing a contact.
- +OUT terminal** The +OUT terminal provides a convenient way to trigger the **SA-1** and power a LED to indicate power.
- Momentary trigger** 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 - *even with a stuck operator button...no more burned intermittent duty strikes - no more emergency service calls due to stuck open doors.*
- Extended trigger** Some applications require an operator assisted door to be open for an extended period of time. The **SA-1** 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.
- Hot triggers** 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 **SA-1** will use any trigger voltage between 6 and 48 volts AC or DC as if it were a dry contact ... **no interface relays required.**
- Power requirements** The **SA-1** 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 components are built in.

### SA-1 OPERATING SPECIFICATIONS

Operating voltage:	12 to 24 volts, AC or DC
Stand by current:	12V - 6mA, 24V - 14mA
Operating current:	12V - 46mA, 24V - 58mA ( both lock and operator relays active )
Trigger input::	.06 - .48 mA, 6-48VAC or DC Maximum: 200VDC or 140VAC, 1.5KV/5msec (12-24VAC or DC with April/02 dates) (12-24VDC with March/02 dates)
Power protection:	high capacity surge suppression on circuit board
Relay protection:	high capacity surge suppression for lock relay
Timers:	1/4 to 30 seconds
Relay contacts:	2 A @ 24VDC, all form 'C'
Operating Temperature:	-10 to 45 C

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