


# Interval

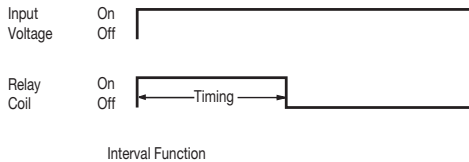
## S1 Series

### FEATURES

- 100% functionally tested
- Digital timing circuit
- Time delays to 1 hour
- $\pm 1\%$  repeatability
- Superior transient protection
- Fiberglass reinforced circuit board
- Internal components supported by heavy-duty chassis
- Reinforced base locator pin
- Flame-retardant polycarbonate housing
-  File #E59090

**Operating Logic:** Upon application of voltage to the input terminals, the relay coil is activated and the timing cycle starts. At the end of the preset time delay, the relay coil is deactivated. Reset is accomplished by removal of the input voltage.

### LOGIC FUNCTION DIAGRAM



### SPECIFICATIONS

#### TIME DELAY

**Adjustment:** Knob, factory fixed on special order (min. order required)

**Range:** 50 ms to 1 hour in 6 ranges

**Repeatability:**  $\pm 1\%$  at constant temperature

#### Accuracy:

Maximum time -0%, +10%

Minimum time +0%, -50%

**Reset Time:** 50 ms max.

#### INPUT

**Operating Voltage:** 24, 120 VAC; 12, 24 VDC  
 $\pm 10\%$  (DC models have reverse polarity protection; unfiltered input voltage to them must be full-wave rectified)

**Power Consumption:** 3 VA max.

**Frequency:** 50/60 Hz

#### OUTPUT

**Type:** Relay contacts, DPDT (2 form C)

**Rating:** 10 A max. resistive at 240 VAC 100 mA at 5 VDC min. load current

#### Life:

Mechanical: 10,000,000 operations

Full Load: 500,000 operations

#### PROTECTION

**Transient Voltage:** 12 and 24 V timers are protected by an 8.8 joule metal oxide varistor; 120 V timers are protected by a 30 joule metal oxide varistor

**Dielectric Breakdown:** 1500 VAC, RMS min. at 60 Hz between input and outputs and between outputs

#### MECHANICAL

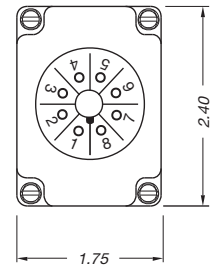
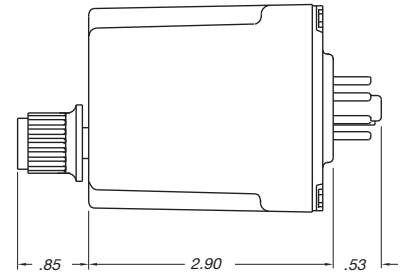
**Termination:** 8-pin plug-in base

**Mounting:** Socket mount, part number MSO-0008P-012

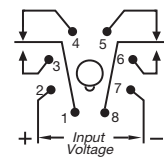
#### ENVIRONMENTAL

**Storage Temperature:** -23°C to 70°C

**Operating Temperature:** -23°C to 55°C



(3012-4)



PIN CONFIGURATION  
Polarity Shown is  
for D.C. Models

### ORDERING INFORMATION

TIME RANGE	12 VDC	24 VDC	24 VAC	120 VAC
.05 to 5 sec.	—	—	—	S1K-00005-461
.1 to 10 sec.	S1K-00010-466	S1K-00010-462	S1K-00010-467	S1K-00010-461
.6 to 60 sec.	S1K-00060-466	S1K-00060-462	—	S1K-00060-461
1.8 to 180 sec.	—	—	S1K-00180-467	S1K-00180-461
6 to 600 sec.	—	—	—	S1K-00600-461
36 to 3600 sec.	—	—	—	S1K-03600-461

Consult factory for any special requirements not listed in catalog (minimum order requirement may apply).