Timing Mode: **MULTIFUNCTION**
Category: **TIMER WITH RELAY**
Series: **MC360**

CUBE RELAY, MULTIFUNCTION

AIROTRONICS
Timers and Controls ACT

MC360 Timers

Created for OEMs and designers seeking significant flexibility at the prototype stage, MC360 series are multifunction timers with dipswitch settings, adjustable potentiometers, relay output and LED indicator.

Extremely versatile, the MC360 offers extensive options for products or systems under development, as well as one-of-a-kind solutions.

With nine single-setting timing modes and two dual-setting timing modes available in a single unit, and time delays from 1 to 100 seconds or 1 to 100 minutes, the MC360 series is a cost-effective solution for fine-tuning timing functions in myriad applications.

Easy to order, easy to use.

FEATURES

- ■ **Multifunction, accurate timing**
- ■ **Binary dipswitch settings, 11 timing modes**
- ■ **Wide range of timing delay settings**
- ■ **Wide selection of AC and DC input voltages**
- ■ **Totally encapsulated for protection from harsh environments**
- ■ **100% operational testing**
- ■ ℞ ℞
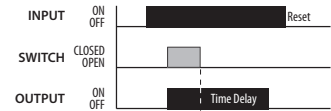- ■ **RoHS compliant**

Multiple Timing Modes in One Timer
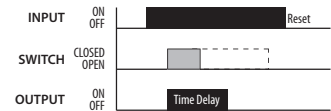
SINGLE-SETTING TIMING MODES

1 **Delay on Make**
see TGC, catalog pg 16

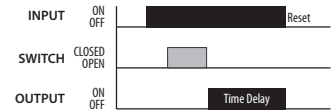2 **Delay on Break**
see TGM, pg 46

3a **Single Shot on Make**
see TGP, pg 112
with switch between T1 and T2, delay starts when switch closes

3b **Interval On**
see TGL, pg 138
with wired connection between T1 and T2, delay starts with Power On and de-energizes at end of time delay. Resets with Power Off.
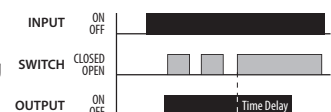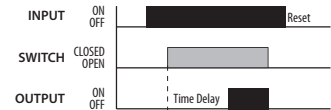
4 **Single Shot on Break**
see TGPS, pg 120

5 **Retriggerable Interval**
Missing Pulse Detector/Watchdog
see TGLR, pg 168
Power On transfers relay

6 **Retriggerable Single Shot**
Missing Pulse Detector/Watchdog
see TGMPL, pg 170
with continuous power, closing Control Switch transfers relay

7 **Delay on Make with Initiate**
see TGKA, pg 84

8 **Repeat Cycle On/Off Delay**
see TGKA, pg 84

DUAL-SETTING TIMING MODES

9 **Repeat Cycle On/Off Delay**
see TGKAD, pg 92

10 **Repeat Cycle Off/On Delay**
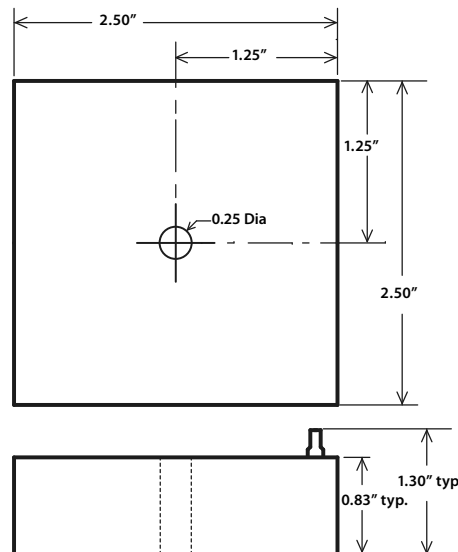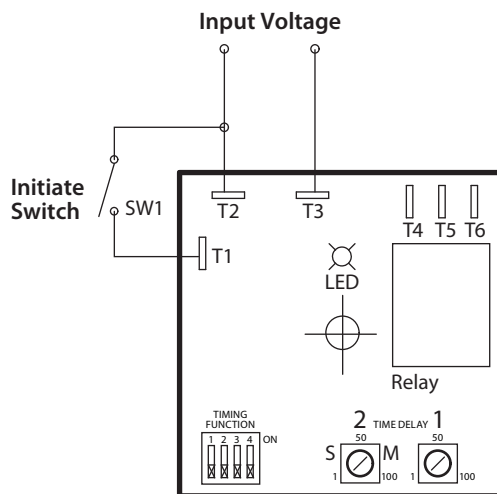see TGKD, pg 88

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Single Time Settings

Dipswitch Settings — Timing Mode Reference

SWITCH 1 2 3 4	Timing Mode Reference
0 0 0 0	**TGC** Delay on Make
0 0 0 1	**TGM** Delay on Break
0 0 1 0	**TGP / TGL** SS on Make/Interval On
0 0 1 1	**TGPS** Single Shot on Break
0 1 0 0	**TGLR** Retriggerable Interval
0 1 0 1	**TGMPL** Retriggerable Single Shot
0 1 1 0	**TGC** Delay on Make with Initiate
0 1 1 1	**TGKA** Repeat Cycle On/Off Delay

Pot 1 selects 1-100, Pot 2 selects Seconds or Minutes

Dual Time Settings

SWITCH 1 2 3 4	Timing Mode Reference	1st Delay	2nd Delay
1 0 0 0	**TGKAD** On/Off	1s to 100s	1s to 100s
1 0 0 1		1s to 100s	1m to 100m
1 0 1 0		1m to 100m	1s to 100s
1 0 1 1		1m to 100m	1m to 100m
1 1 0 0	**TGKD** Off/On	1s to 100s	1s to 100s
1 1 0 1		1s to 100s	1m to 100m
1 1 1 0		1m to 100m	1s to 100s
1 1 1 1		1m to 100m	1m to 100m

Pot 1 selects first delay, Pot 2 selects second delay

SPECIFICATIONS

Input Voltage: 24, 120 or 230VAC, 50 / 60Hz, ±10%
12 or 24VDC, ±10%

Output current: 10A resistive, max.

Single-Setting Time delay: *via pots* Adjustable from 1 second to 100 minutes

Dual-Setting Time delays: *via dipswitches and pots* Adjustable from 1 second to 100 minutes

Timing function: Multiple timing modes available

Repeatability: 0.1% or 20mS, whichever is greater

Time delay accuracy: 2.5% or 50mS, whichever is greater

Recycle / Start-up time delay: 250mS, typ.

Temperature Ranges: *Storage:* -40°C to +85°C *Operating:* -25°C to +60°C

Mechanical: 2.5" x 2.5" case, Surface mount with one #8 or #10 screw 0.25" QC terminals for input and output

Protection: Encapsulated circuitry, MOV transient protection, passes EFT test at 2500V

OPTIONS SELECTION

Mode of Operation	Series	Part Number	Input Voltage
Multi-function and Resettable	MC360	MC1003601H	120VAC
		MC2003601H	230VAC
		MC3003601H	24VAC
		MC7003601H	12VDC
		MC4003601H	24VDC

EXAMPLE | MC | 100 | 360 | 1H |

MC360 multifunction timer with 10A output, 120VAC input, and single pole/double throw relay