



# DELAY ON RELEASE ADJUSTABLE TIMING RELAY OUTPUT

5700

## FEATURES:

- Customer Adjustable Timing
- Reverse Polarity Protection
- Built to MIL-R-83726 Environmentals

## ELECTRICAL SPECIFICATIONS:

**Timing Range:** 50 ms to 600s

**Tolerance:** ±10% or ±15 ms whichever is greater.

**Repeatability:** ± .1%

**Operate Time:** Rated 2 and 5 A, 10 ms max. 10 A, 20 ms max.

**Recycle Time:** 10 ms max.

**Reset Time:** 20 ms maximum.

## Input Data:

**Input voltage:** 18 to 31 V dc

**Control:** 10 to 31 V dc. Ground common to aux. power line. 10 volts minimum must be applied for a minimum duration of 20 milliseconds to energize output and initiate the timing circuit.

**Current Drain:** (at 25°C at 28 VDC).

**Control Line:** 15 mA typical, 25 mA maximum

**Input:** 25 mA max. after time delay period and see table below for during time period.

Configuration	2 & 5 A	10 A
1 PDT	100 mA	150 mA
2 PDT	150 mA	240 mA

## OUTPUT DATA:

Specified Rating	Amperes at 30 VDC		Amperes at 115 V 400 Hz	
	Res.	Ind.	Res.	Ind.
2 amps	2	1	1	0.3
5 amps	5	1.5	3	1
10 amps	10	5	5	3

## ENVIRONMENTAL SPECIFICATIONS:

**Temperature:** -55°C to +85°C or -55°C to +125°C.

**Vibration:** 20 G's, 10 to 2000 Hz.

**Shock:** 50 G 11 ±1 milliseconds duration.

**Insulation Resistance:** 1000 Megohms at 500 VDC.

**Dielectric Strength:** 1000 V RMS, 60 Hz at sea level, all terminals to case.

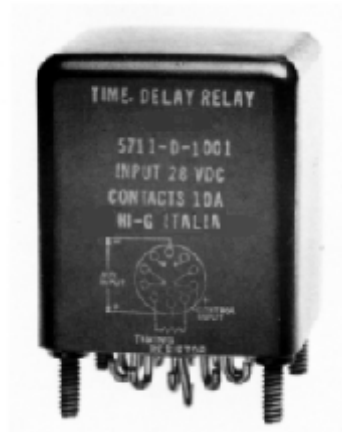
**Sealing:** Hermetic 1.3 inches mercury.

**Life:** 2 and 5 A rated — 100,000 operations minimum.  
10 A rated 50,000 operations minimum.

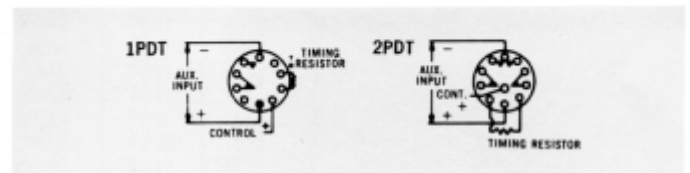
**Weight:** 8.5 oz. max.

## SPECIAL NOTES:

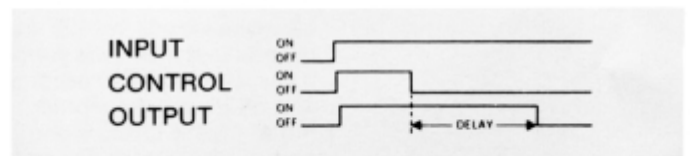
- 10 V dc minimum must be applied for a minimum duration of 20ms to energize output and initiate timing.
- Units rated at 10A have a minimum time delay of 100ms.



## WIRING DIAGRAM



## TIMING DIAGRAM



Apply input power. Upon application of control power, the output will energize. Remove control power and initiate delay period.

## OPTIONS:

- Tighter Tolerances
- Modified Header and Mounting
- Extended Delays
- Different Input Voltages
- Different Control Line Voltages
- Input 115 VAC, 60 Hz or 400 Hz

## ADJUSTABLE TIMING FORMULA:

The resistance required to obtain timing within this range is determined by using the formula:

$$R_x = 400K (T/T_{max.}) - 40K$$

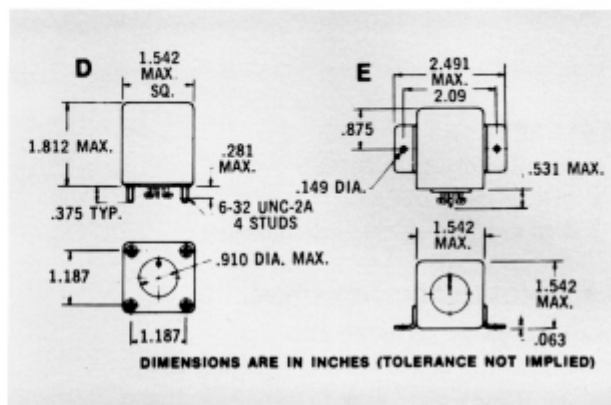
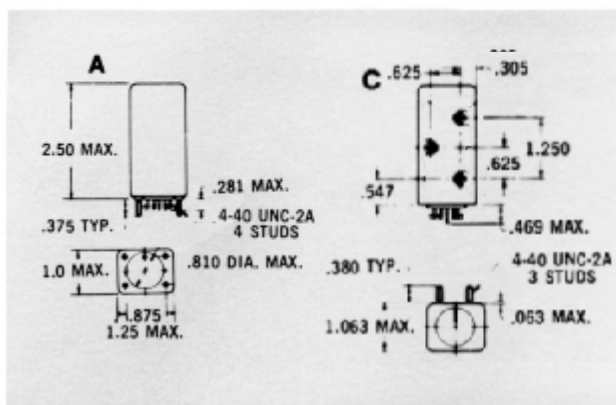
$R_x$  = External Res. in OHMS

$T$  = Desired time in seconds  
 $T_{max.}$  = Maximum time (code)

A high quality deposited carbon ±1%, .1w (min.) resistor is recommended for external resistance.

See Note 1.

## MECHANICAL SPECIFICATIONS



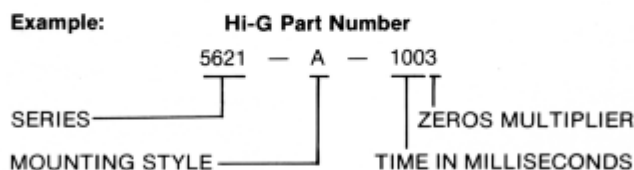
DIMENSIONS ARE IN INCHES (TOLERANCE NOT IMPLIED)

## HOW TO ORDER:

Series Fixed	Contact Configuration	Rating	Temperature Range	Available Enclosure
5601	1PDT	2A	-55°C to +85°C	A-C-D-E
5602	2PDT	2A	-55°C to +85°C	A-C-D-E
5605	1PDT	5A	-55°C to +85°C	D-E
5606	2PDT	5A	-55°C to +85°C	D-E
5610	1PDT	10A	-55°C to +85°C	D-E
5611	2PDT	10A	-55°C to +85°C	D-E
5621	1PDT	2A	-55°C to +125°C	A-C-D-E
5622	2PDT	2A	-55°C to +125°C	A-C-D-E
5625	1PDT	5A	-55°C to +125°C	D-E
5626	2PDT	5A	-55°C to +125°C	D-E

The part number for a Hi-G Time Delay Module consists of three elements: The series number (from the Table), a letter signifying mounting style, and the timing code number. The timing code number consists of four digits and gives the time in milliseconds. The first three digits are the significant figures and the last digit is the number of zeros following the significant figures; thus 50 milliseconds would be coded 0500, 1.1 seconds would read 1101, and 1 minute (60 seconds) would be 6002.

### Example:



### NOTE 1:

The time delay may be extended beyond the normal "decade" range of above formula by increasing the timing resistance "RX", beyond standard 360k Max value up to a maximum value of 1.160 M. However, the tolerance and repeatability are not tested and therefore not guaranteed at this high "RX" value. Also, some slight non-linearity between Rx and desired time delay will occur.