



# Thermal Delay Switches

Codes: S102/1G  
VLS631

These miniature thermal delay switches have been designed to provide delay between the application of heater voltage and anode voltage in indirectly heated valves and mercury vapour rectifiers. The S102/1G is identical to the VLS631 but has a B7G/F base for wiring directly into the circuit.

## HEATER

Heater voltage	6.3	V
Nominal current	0.5	A

## DELAY TIME AT 20°C

Minimum delay	44	sec
Maximum delay	66	sec

## DIMENSIONS

	S102/1G	VLS631	
Maximum overall length		54.0	mm
Maximum seated height	47.6	47.6	mm
Maximum overall diameter	19.1	19.1	mm
Minimum lead length	38		mm ←
Base	B7G/F	B7G	
Net weight	9	9	g
Mounting position	Vertical, base down		←

## MAXIMUM RATINGS

Maximum open circuit D.C. voltage between contacts	220	V
Maximum contact current on make	1.0	A
Maximum surge current on make	5.0	A
Maximum current on break at 50 V D.C.	100	mA

NOTE.—A recommended method of operation is to arrange for the delay switch to operate a mechanical relay fitted with a "hold-on" coil. By this means large powers can be handled and it can be so arranged that as the contacts close the heater supply of the switch is removed. This will ensure the full delay time in the event of a shut down.

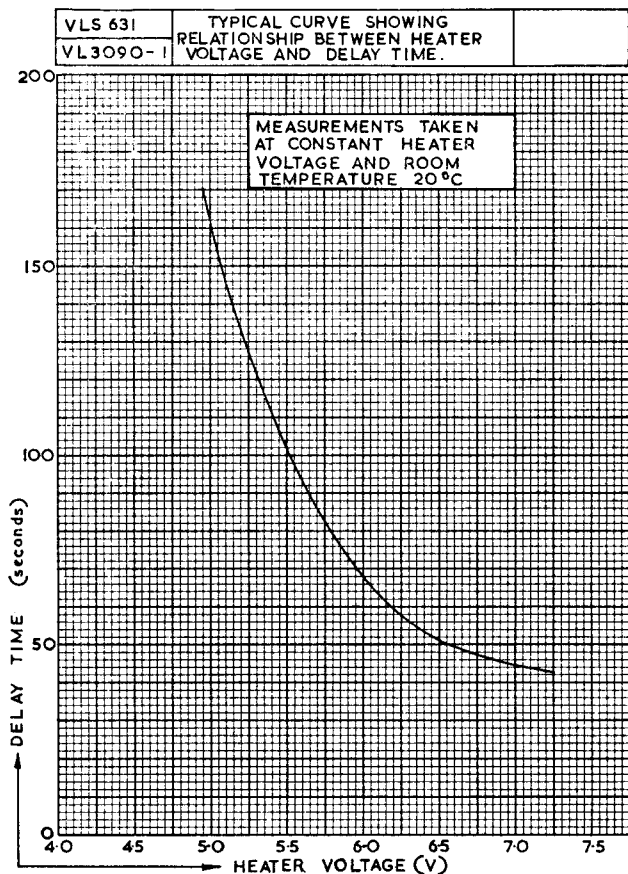
Delay switches may be connected in series to obtain multiples of the quoted delay time.

Ref.:  
S102/1G  
S102/1K

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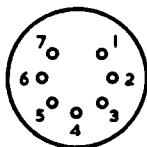
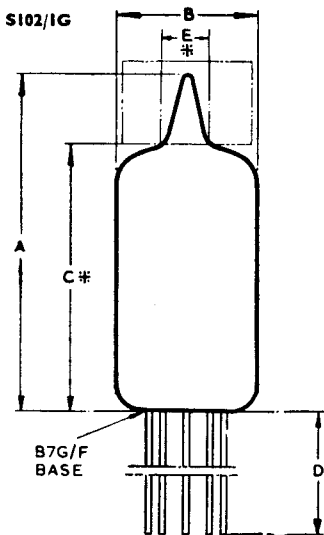


## Thermal Delay Switches



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\* DENOTES:- MEASURED FROM BASE SEAT TO BULB TOP LINE AS DETERMINED BY RING GAUGE OF 'E' INT: DIA:

**BASING**

- 1 HEATER
- 2 I.C.
- 3 ACTIVE STRIP
- 4 STATIONARY STRIP
- 5 N.C.
- 6 I.C.
- 7 HEATER

DIM	MILLIMETRES	INCHES
A	47.6 MAX:	1 $\frac{7}{8}$ MAX:
B	19.1 MAX:	$\frac{3}{4}$ MAX:
C*	38.1 $\pm$ 2.4	1 $\frac{1}{2}$ $\pm$ $\frac{3}{32}$
D	38.0 MIN:	1 $\frac{1}{2}$ MIN:
E*	11.1	$\frac{7}{16}$

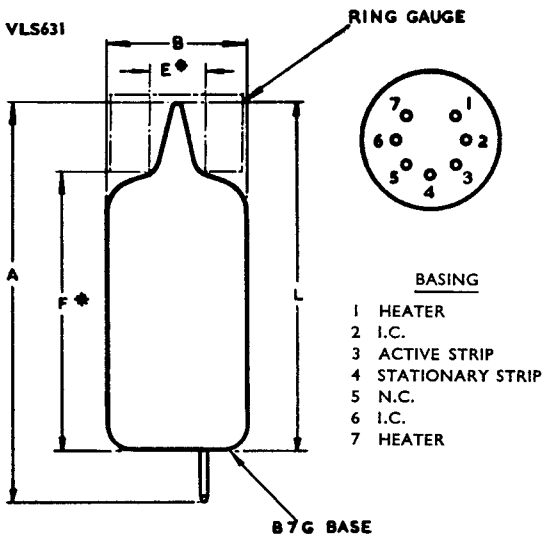
NOTE: BASIC FIGURES ARE INCHES.

Ref.:  
S102/1G  
S102/1K

# Thermal Delay Switches



Codes: S102/1G  
VLS631



\* DENOTES:- MEASURED FROM BASE SEAT TO BULB TOP LINE, AS DETERMINED BY RING GAUGE OF 'E' INT. DIA.

DIM	MILLIMETRES	INCHES
A	54.0 MAX.	2 <sup>1</sup> / <sub>8</sub> MAX.
B	19.1 MAX	<sup>3</sup> / <sub>4</sub> MAX.
* F	38.1 ± 4.0	1 <sup>1</sup> / <sub>2</sub> ± <sup>5</sup> / <sub>32</sub>
* L	47.6 MAX	1 <sup>7</sup> / <sub>8</sub> MAX.
* E	11.1	<sup>7</sup> / <sub>16</sub>

NOTE:- BASIC FIGURES ARE INCHES.