

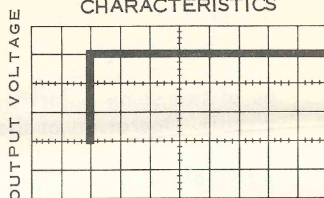


# SERIES 2ED UNTIMED PULSE CONTACT BUFFER

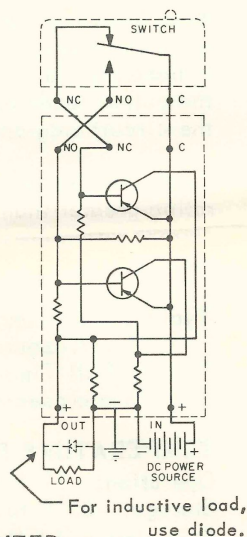
Series 2ED Untimed Pulse Contact Buffers produce a single square wave pulse as long as the controlling contacts are held actuated. These circuits handle loads up to 250 ma in two load versions - - 100 to 500 ohms resistive and 500 ohms minimum resistive. Depending on the device selected, the input voltage can be +5 to +25 volts DC for positive voltage to the load or -5 to -25 volts DC for negative voltage to the load.

These circuits eliminate the effects of contact bounce that occurs with mechanical contacts during turn-on time. They produce a single pulse per actuation of the controlling switch. These circuits reduce radio frequency interference of mechanical contacts, and the effects of contact openings due to shock and vibration. They eliminate the problems of unstable contact resistance, and produce the untimed pulse irrespective of the speed with which the controlling contacts are actuated. The period of time the contacts are held actuated determines the pulse length.

2 ED OUTPUT  
CHARACTERISTICS



CONTACT BUFFER CIRCUIT



## CAUTION: To Prevent Circuit Destruction - - -

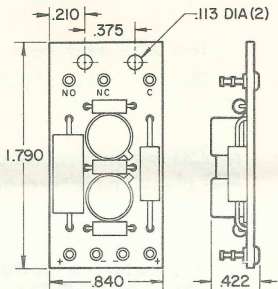
- (1) AVOID EXCEEDING MAXIMUM SUPPLY VOLTAGE
- (2) WIRE ONLY AS IN SCHEMATIC - INPUT IS POLARIZED
- (3) AVOID EXCEEDING 250 MA LOAD, DO NOT SHORT OUTPUT

| CONTACT BUFFER CIRCUIT | TOUCH-FEEDBACK PUSHBUTTON WITH CIRCUIT | SERIES 2 & 6 SWITCH MODULE* WITH CIRCUIT | INPUT and OUTPUT VOLTAGE RANGE | HANDLES RESISTIVE LOAD OF |
|------------------------|--|--|--------------------------------|---------------------------|
| 2ED1                   | 1PB2001                                | 2D617                                    | +5 to +25 vdc                  | Over 500 ohms             |
| 2ED2                   | 1PB2002                                | 2D618                                    | +5 to +25 vdc                  | 100 to 500 ohms           |
| 2ED3                   | 1PB2003                                | 2D619                                    | -5 to -25 vdc                  | Over 500 ohms             |
| 2ED4                   | 1PB2004                                | 2D620                                    | -5 to -25 vdc                  | 100 to 500 ohms           |
|                        |  | *See Catalog 67 for Actuator             |                                |                           |

### MOUNTING DIMENSIONS - CIRCUIT

## DEVICE CHARACTERISTICS

These circuits contain solid state components. As such, the input terminals are polarized so that the DC Power Source terminals must be of the same polarity as marked on the circuit. Operation of the circuit in excess of 250 ma, or a short circuit across the output terminals may damage the circuit. Output voltage is approximately 96% of input voltage due to transistor junction drops.



When handling inductive loads such as relays, solenoids, etc., a diode should be placed across the output leads as shown below the circuit diagram on Page 1.

Diode must have inverse voltage rating greater than load voltage and current rating greater than load current.

Typical Rise Time:  
0.75 microseconds  
Typical Fall Time:  
0.75 microseconds

## TEMPERATURE RANGE

Operation: +32°F to +131°F

Storage:  $-65^{\circ}\text{F}$  to  $+185^{\circ}\text{F}$

Rise time and fall time is reduced as temperature is lowered.

## SOLDERING

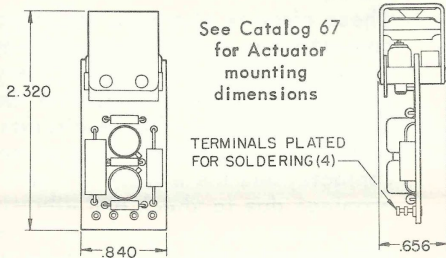
Leads should not be held at 600°F soldering temperature for longer than 10 seconds.

**SERIES 2 & 6**

## SWITCH MODULE WITH CIRCUIT

See Catalog 67  
for Actuator  
mounting  
dimensions

TERMINALS PLATED  
FOR SOLDERING (4) —



## PUSHBUTTON SWITCH WITH CIRCUIT

### PLASTIC PLUNGER

KEYWAY—

HEX NUT-

—15/32-32 NS THREAD

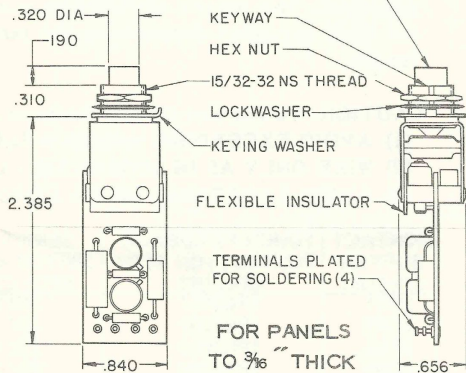
LOCKWASHER-

-KEYING WASHER

FLEXIBLE INSULATOR

TERMINALS PLATED  
FOR SOLDERING (4) —

FOR PANELS  
TO  $\frac{3}{16}$ " THICK



# MICRO SWITCH

FREEPORT, ILLINOIS 61032

A DIVISION OF HONEYWELL

IN CANADA: HONEYWELL CONTROLS LIMITED, TORONTO 17, ONTARIO