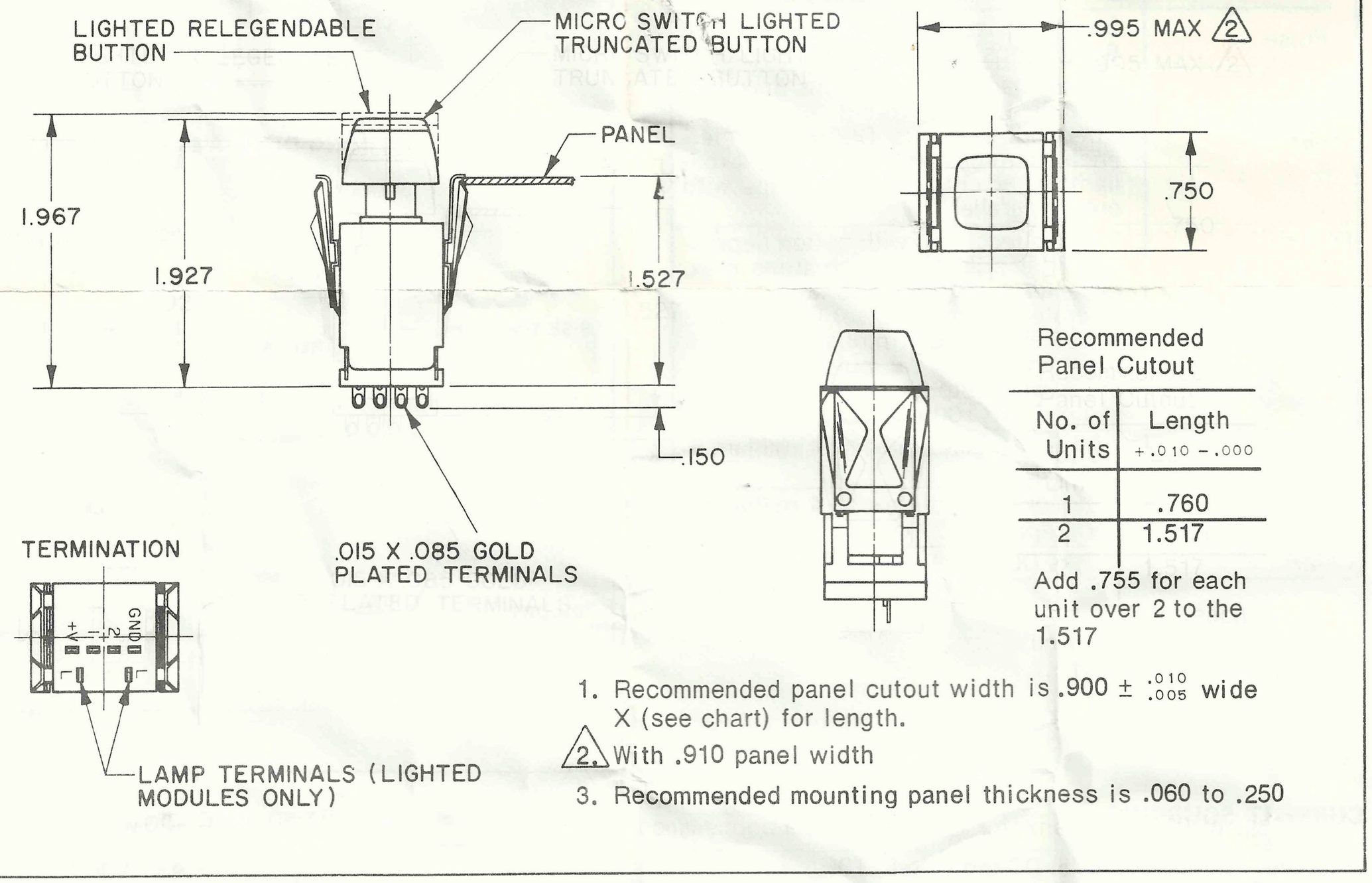
MICRO SWITCH PK 8513 0

SOLDERING AND INSTALLATION INSTRUCTIONS for 11SN SERIES SWITCHES



Recommended Panel Cutout

No. of Units	Length +.010 −.000
1	.760
2	1.517

Add .755 for each unit over 2 to the 1.517

1. Recommended panel cutout width is .900 $\pm$ $^{.010}_{.005}$ wide X (see chart) for length.
2. With .910 panel width
3. Recommended mounting panel thickness is .060 to .250

Unless tolerances are given, dimensions are for reference only.

1. PANEL CUTOUT (See chart above)

To determine the length of panel cutouts for more than two units add 0.755 inch for each additional unit to the 1.517 inch dimensions given for the first two units.

Example: The panel cutout length for a five unit row would be:

1.517 inches for first two switches
+2.265 = (0.755 x 3) allowance for 3 additional switches
3.782 Length of cutout for five switches

2. SOLDERING WIRES TO TERMINALS

We recommend that a soldering iron with a 1/8 inch diameter thermostatically controlled tip of 500° F. be used and that it not be held on the terminal longer than 10 seconds. Excessive iron heat can cause serious damage to the switch. A resin core 60% tin and 40% lead solder should be used.

3. LAMP REMOVAL

The lamp may be removed by first removing the button.

Lamp: T-1 Bi-pin, 5VDC, 0.115 amps. MICRO SWITCH part no. SW-10569. Lamps may also be purchased direct from the manufacturers, such as Chicago Miniature, 4433 Ravenswood Avenue, Chicago, Illinois (part no. CM-7-7715); or CIMCO International, Inc., 201 N. Wells Street, Room 1920, Chicago, Illinois (part no. OL 718BP).

CAUTION: Do not remove buttons from alternate action switches when in the operated position or serious damage will result to the switch.

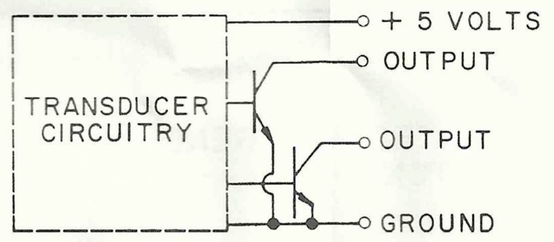
Observe proper input voltage - See Electrical Specifications on the reverse side.

ELECTRICAL

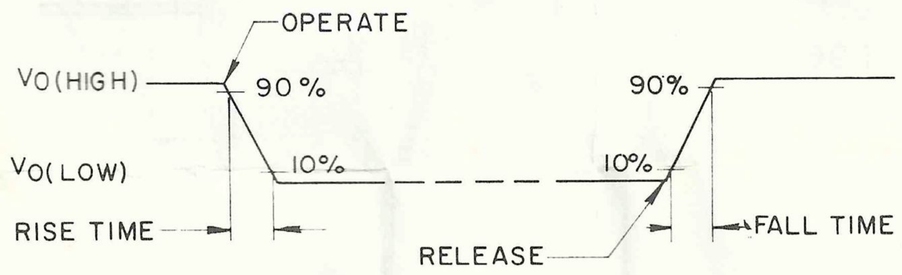
CURRENT SINKING

POWER REQUIREMENTS	
Sink Level	5 volts DC regulated ±10% 5 milliamps max. standby current
Pulse	5 volts DC regulated ±10% 9 milliamps max. standby current
OUTPUT CAPACITY (LEVEL)	Unoperated: 10 microamps max. collector leakage to ground Operated: 0.4 volts DC max. (referenced to minus supply) sinking 4 milliamps per output (8 milliamps with output parallel.)
OUTPUT CAPACITY (PULSE)	Unoperated: (and with button depressed after pulse) 10 microamps max. collector leakage to ground Operated: (during pulse) 0.4 volts DC max. (referenced to minus supply) sinking 4 milliamps per output. (8 milliamps with outputs paralleled.) Pulse width: 10 to 100 microseconds.
RISE TIME	1.0 microsecond max. @ 4 milliamps per output
FALL TIME	1.0 microsecond max. @ 4 milliamps per output
LAMP	5 volts DC, 0.115 amps.

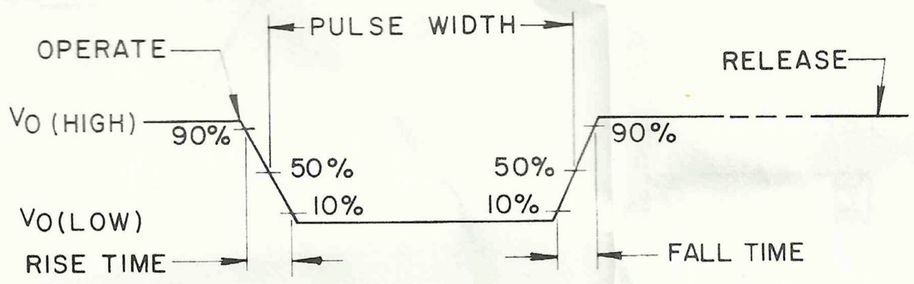
CURRENT SINK LEVEL AND PULSE



TIMING DIAGRAMS



LEVEL SWITCH OUTPUT

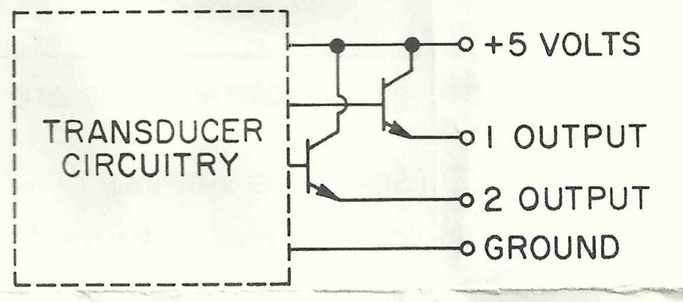


PULSE SWITCH OUTPUT

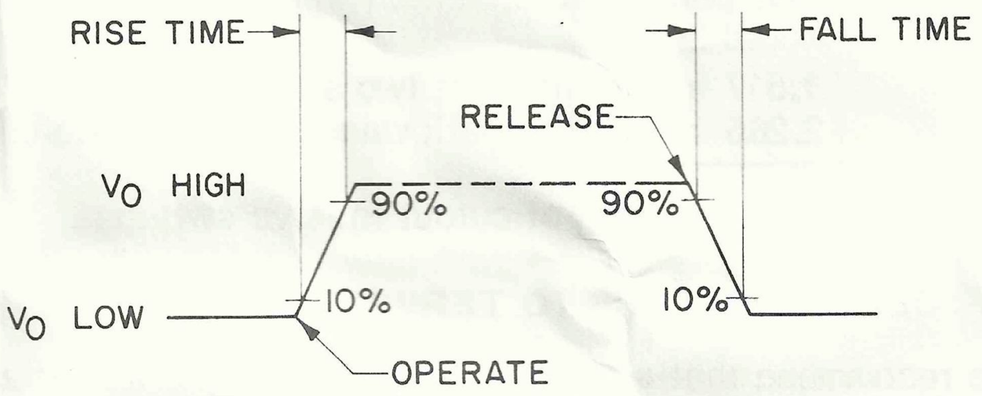
CURRENT SOURCING

POWER REQUIREMENTS	5 volts DC regulated ±10% 5 milliamps max. standby current.
OUTPUT CAPACITY	Unoperated: 10 microamps max. leakage from Vcc. Operated: 2.8 volts D.C. min. @ 1 to 10 milliamps current source (20 milliamps with outputs paralleled.)
RISE TIME	1 microsecond max. @ 10 milliamps per output.
FALL TIME	2 microseconds max. @ 10 milliamps per output.
LAMP	5 volts DC, 0.115 amps.

CURRENT SOURCE LEVEL



TIMING DIAGRAM



PK 8513 0 973 PRINTED IN USA

MICRO SWITCH
FREEPORT, ILLINOIS 61032
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