

ordering information

Contact your nearest MICRO SWITCH Branch Office and a Field Engineer will be glad to work with you in satisfying your keyboard requirements: proper selection, pricing and delivery scheduling. These experienced keyboard experts will provide sound and practical answers to your needs.

Atlanta, Georgia 30329
6 West Druid Hills Drive, N.E.
404/631-3321

Binghamton, New York 13901
1200 Arterial Hwy.
607/723-7993

Boston Office
Bedford, Massachusetts 01730
4 Preston Court
617/275-2440

Chicago Office
Skokie, Illinois 60076
Suite 100
4849 West Golf Road
312/478-9266

Cleveland, Ohio 44103
1001 East 55th Street
216/881-0300

Dallas, Texas 75206
6000 North Central Expressway
214/363-5441

Davenport Office
Bettendorf, Iowa 52722
1810 State Street
319/355-6456

Dayton, Ohio 45404
2314 Stanley Avenue
513/461-4480

Denver Office
Englewood, Colorado 80110
7825 E. Prentice Avenue
303/771-2340

Detroit Office
Southfield, Michigan 48075
17515 W. Nine Mile Road
313/352-1900

Hartford, Connecticut 06101
885 Wethersfield Avenue
203/527-0178

Houston, Texas 77042
8440 Westglen Drive
713/785-3200

Indianapolis, Indiana 46241
5739 Professional Circle
317/243-0831

Kansas City, Missouri 64133
8401 East 50 Highway
816/358-4200

Long Island City, New York 11101
24-30 Skillman Avenue
212/786-5005

Los Angeles, California 90040
6620 Telegraph Road
213/723-6611

Memphis, Tennessee 38131
2005 Nonconah Boulevard
901/396-6222

Milwaukee, Wisconsin 53222
2979 North Mayfair Road
414/771-6300

Minneapolis, Minnesota 55435
Twin City Branch
7400 Metro Blvd.
612/835-5400

Philadelphia Office
Blue Bell, Pennsylvania 19422
Merion-Towle House
1777 Walton Road
215/643-5820

Rochester, New York 14623
100 Metro Park
716/461-1600

St. Louis Office
Creve Coeur, Missouri 63141
10000 Old Olive Street Road
314/991-4100

San Francisco Office
Sunnyvale, California 94086
910 Thompson Place
408/732-0120

Seattle Office
Mercer Island, Washington 98040
9555 S.E. 36th Street
206/232-5030

Syracuse Office
Liverpool, New York 13088
7485 7th North Street
315/451-4000

Washington, D.C. Office
McLean, Va. 22101
1766 Old Meadow Lane
703/893-4660

Westchester Office
Elmsford, New York 10523
570 Taxter Road
914/592-3200

Westfield, N.J. 07090
574 Springfield Avenue
201/233-9200

Wichita, Kansas 67216
2801 South Madison
316/522-3435

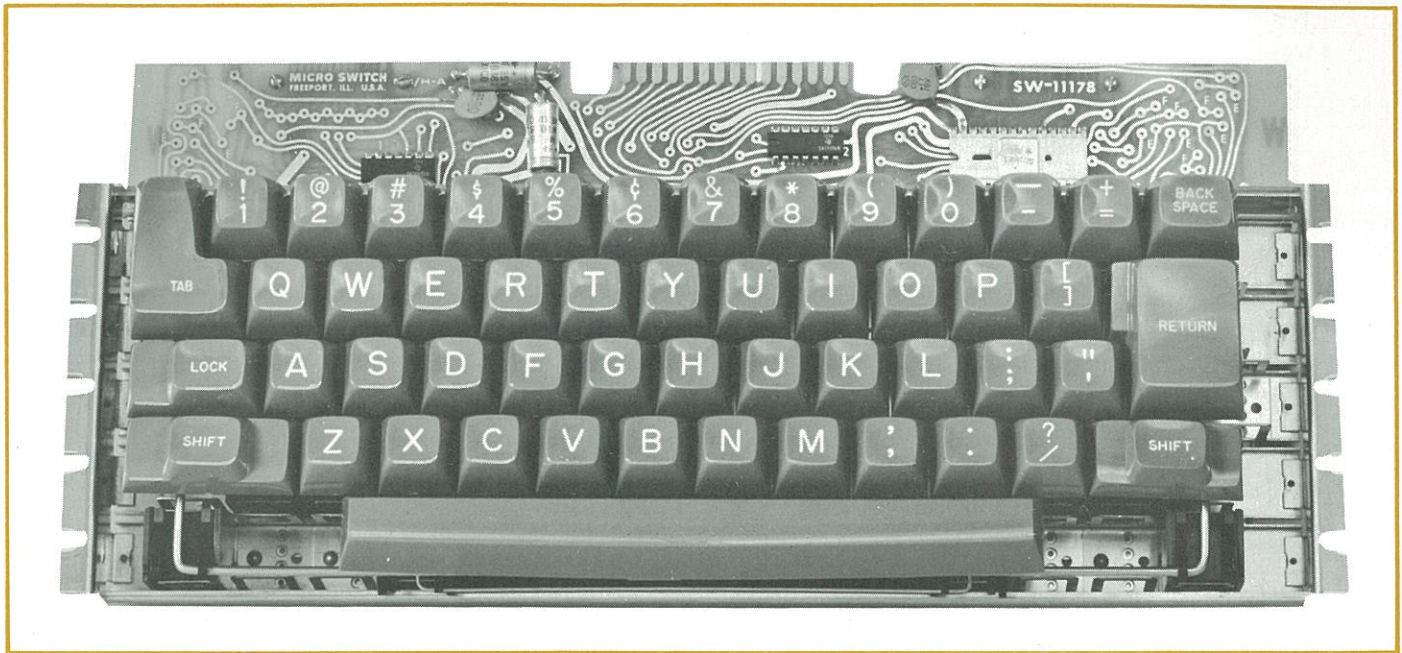
MICRO SWITCH

FREEPORT, ILLINOIS 61032
A DIVISION OF HONEYWELL

IN CANADA: 740 Ellesmere Road, Scarborough, Ontario. INTERNATIONAL: Sales and service offices in all principal cities of the world.

MICRO SWITCH

product sheet 51SW12-1 TYPEWRITER KEYBOARD



The 51SW12-1 keyboard is ideally suited to word processing and phototypesetting applications, especially where high speed alphanumeric data entry is performed by operators previously trained as touch typists. Every effort has been made to duplicate the operation of an office typewriter—to reduce operator training. This includes key array, buttons, key operating force, N-Key rollover interlock and more.

Sculptured buttons are used which provide a contoured typing surface similar to that used on some office typewriters. This feature not only improves the overall appearance, but adds to operator comfort.

A typewriter-type secretarial shift lock mechanism is also included. The operator puts the keyboard into the shifted mode by striking the shift lock key and returns to the unshifted mode by operating the left or right-hand shift key. A mechanical bail releases the shift lock.

This keyboard features our N-Key rollover. Data bits, set by a pulse from the down stroke as each key is depressed, are stored in the MOS memory. When a second key is operated, new data is set into the memory even if the first key is still depressed. Thus, there is no possibility of missing a character or of transposing characters as a result of the order of key release. Any number of keys may be held depressed, then released in any sequence without affecting the proper data entry sequence. This proven feature can reduce operator error by as much as 30%. The pulsed output is part of the solid state chip within each key, rather than a pulse network of discrete components, which significantly improves keyboard reliability.

The 51SW12-1 is dual mode, the first 6 bits identifying the key location and the 7th bit signifies shift. Depression of the shift or shift lock keys generates the 7th bit.

The 51SW12-1 keyboard incorporates the proven approach of MICRO SWITCH Hall-effect solid state keys coupled to MOS encoding. High quality printed circuit boards, rigid stainless steel mounting hardware, and double-shot molded buttons are used to insure long trouble-free keyboard performance.

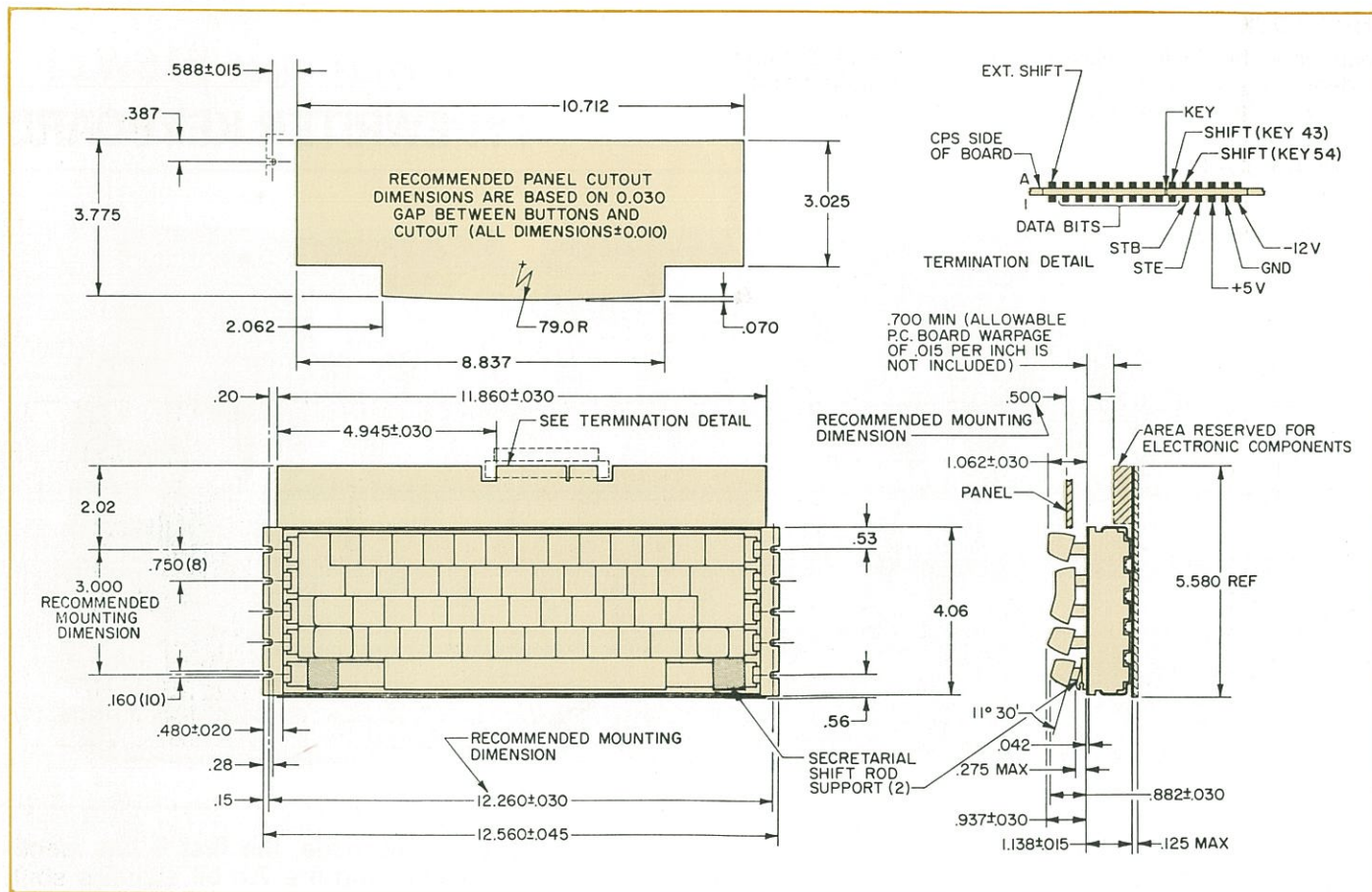
If the 51SW12-1 keyboard doesn't exactly meet your requirements, we can supply keyboards tailored to your needs through our PROM (programmable read-only-memory) capability. See the inserted designer's kit or contact your nearest MICRO SWITCH branch office for complete information.

features

- FAMILIAR "SELECTRIC-TYPE" ARRAY FOR TYPEWRITERS
- HIGH RELIABILITY AND LONG LIFE
- SIX BIT BINARY CODE
- N-KEY ROLLOVER
- SECRETARIAL SHIFT LOCK
- "OFF-THE-SHELF" AVAILABILITY
- PROM CAPABILITY

TYPEWRITER KEYBOARD

product sheet **51SW12-1**



ELECTRICAL DATA

ELECTRICAL DATA			
Power Requirements	+5 Volts DC \pm 5% @ 400 milliamps max. -12 Volts DC \pm 20% @ 70 milliamps max. Keyboard ground @ 0 Volts NOTE: Tolerances include ripple.	Function Key Outputs	<u>Key Unoperated:</u> +0.4 Volts DC max. @ 3.2 milliamps (sinking). <u>Key Operated:</u> +2.6 Volts DC min. @ 0.12 milliamps (sourcing).
		Strobe Outputs	<u>All keys in unoperated state:</u> +0.6 Volts DC max. @ 1.6 milliamps (sinking) <u>Key Operated:</u> +2.55 Volts DC min. @ 0.12 milliamps max. (sourcing) pulsed output. <u>Pulse Duration:</u> 10 microseconds min. <u>Timing:</u> Data bits are true prior to strobe pulse.
Data Key Outputs (Positive Logic)	<u>Logic "0":</u> +0.6 Volts DC max. @ 1.6 milliamps (sinking). <u>Logic "1":</u> +2.55 Volts DC min. @ 0.12 milliamps max. (sourcing). <u>Timing:</u> Data bits are held in memory until the next key depression.		

OUTPUT INTERFACE

Card-edge outputs with gold-plated terminals accept standard connectors such as: Cinch-Jones #251-15-30-160 or equivalent. (Connector is furnished with this listing.)

Buttons

MICRO SWITCH sculptured button style. All buttons gray with white legends.

KEYROW OFFSET

3/8-3/16-3/8 inch offset.

KEY SPACING

Keys are spaced on 3/4 inch offset.

WEIGHT

2.9 lbs. approx.

TYPEWRITER KEYBOARD

product sheet 51SW12-1

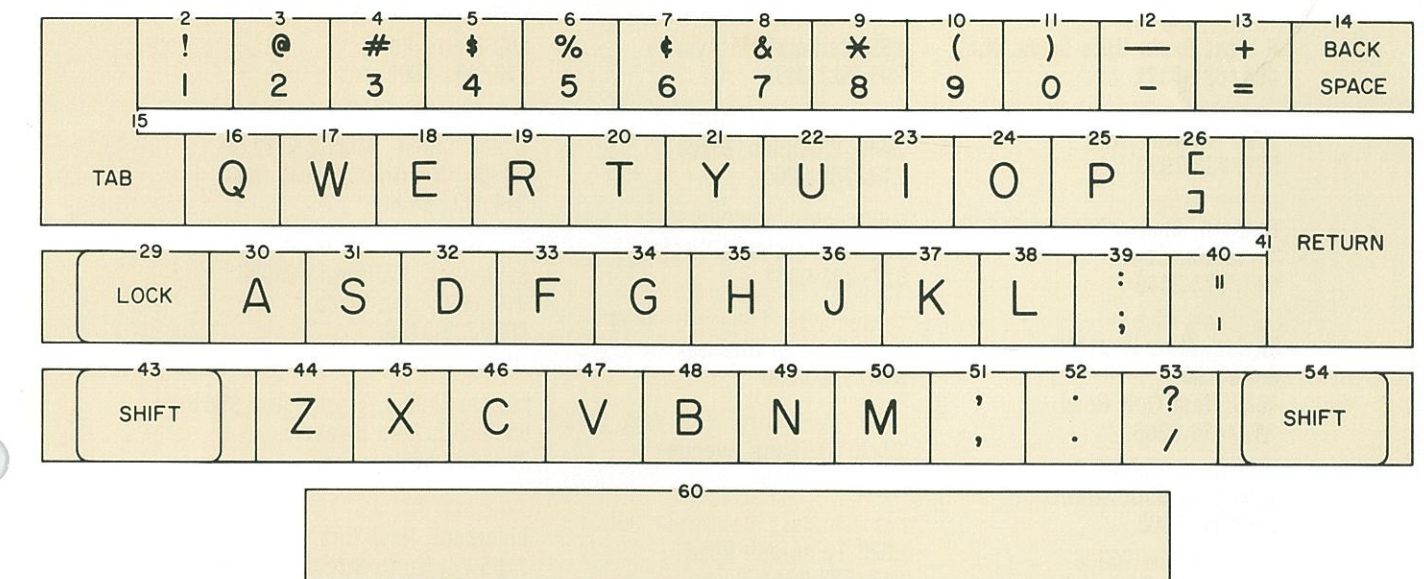
SHIFT LOCK

Secretarial shift lock. Keyboard is locked in shifted mode by depressing shift lock key and returned to unshifted mode by depressing either shift key.

PROM CAPABILITY

Provides quick turn-around prototypes for individual customer requirements.

CODE AND CHARACTER ASSIGNMENT



SIX BIT BINARY CODE

KEY NO.	BITS					
	5	4	3	2	1	0
2	0	0	0	0	1	0
3	0	0	0	0	1	1
4	0	0	0	1	0	0
5	0	0	0	1	0	1
6	0	0	0	1	1	0
7	0	0	0	1	1	1
8	0	0	1	0	0	0
9	0	0	1	0	0	1
10	0	0	1	0	1	0
11	0	0	1	0	1	1
12	0	0	1	1	0	0
13	0	0	1	1	0	1
14	0	0	1	1	1	0
15	0	0	1	1	1	1
16	0	1	0	0	0	0
17	0	1	0	0	0	1
18	0	1	0	0	1	0

KEY NO.	BITS					
	5	4	3	2	1	0
19	0	1	0	0	1	1
20	0	1	0	1	0	0
21	0	1	0	1	0	1
22	0	1	0	1	1	0
23	0	1	0	1	1	1
24	0	1	1	0	0	0
25	0	1	1	0	0	1
26	0	1	1	0	1	0
29	FUNCTION					
30	0	1	1	1	1	0
31	0	1	1	1	1	1
32	1	0	0	0	0	0
33	1	0	0	0	0	1
34	1	0	0	0	1	0
35	1	0	0	0	1	1
36	1	0	0	1	0	0
37	1	0	0	1	0	1

KEY NO.	BITS					
	5	4	3	2	1	0
38	1	0	0	1	1	0
39	1	0	0	1	1	1
40	1	0	1	0	0	0
41	1	0	1	0	0	1
43	FUNCTION					
44	1	0	1	0	1	1
45	1	0	1	1	0	0
46	1	0	1	1	0	1
47	1	0	1	1	1	0
48	1	0	1	1	1	1
49	1	1	0	0	0	0
50	1	1	0	0	0	1
51	1	1	0	0	1	0
52	1	1	0	0	1	1
53	1	1	0	1	0	0
54	FUNCTION					
60	1	1	1	0	1	0