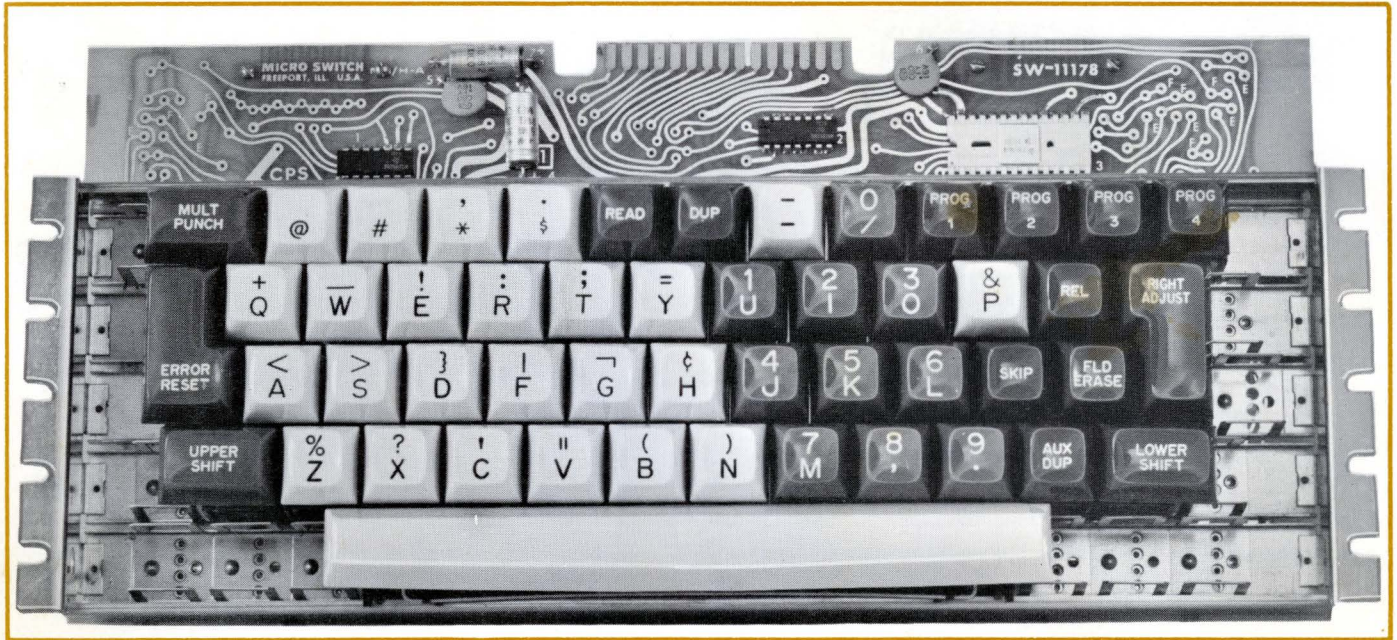


MICRO SWITCH

product sheet 50SW11-50 DATA ENTRY KEYBOARD



The 50SW11-50 keyboard is ideally suited to various types of batch data entry applications, especially key-punch. This keyboard more than meets the needs of the data entry market for long life and high reliability. It can be easily modified for use with other data entry devices, such as key-to-tape or key-to-disc, by changing certain button legends. Key array is similar to that used with the familiar IBM System 3.

Six bit mono-mode encoding meets the basic data entry requirements. Five function keys are provided to identify the following functions: Alpha, Numeric, Multi-Punch, Error Reset, and Right Adjust. The last two are pulsed to facilitate system interface.

One-character storage holds the data bits at the output until the next key is depressed. This allows the system ample time to "read" the keyboard output.

The 50SW11-50 has our N-key rollover feature. 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 though the first key may still be depressed. Thus, there is no possibility of missing a character or of transposing characters as a result of the order of key release. With N-key rollover any number of keys may be held depressed, then released without the release sequence 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. Significantly improved keyboard reliability is the result.

The 50SW11-50 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 50SW11-50 doesn't meet your exact requirements, we can supply prototype keyboards tailored to your needs through our PROM (programmable read-only memory). See the inserted designer's kit, or contact your nearest MICRO SWITCH branch office for complete information.

features

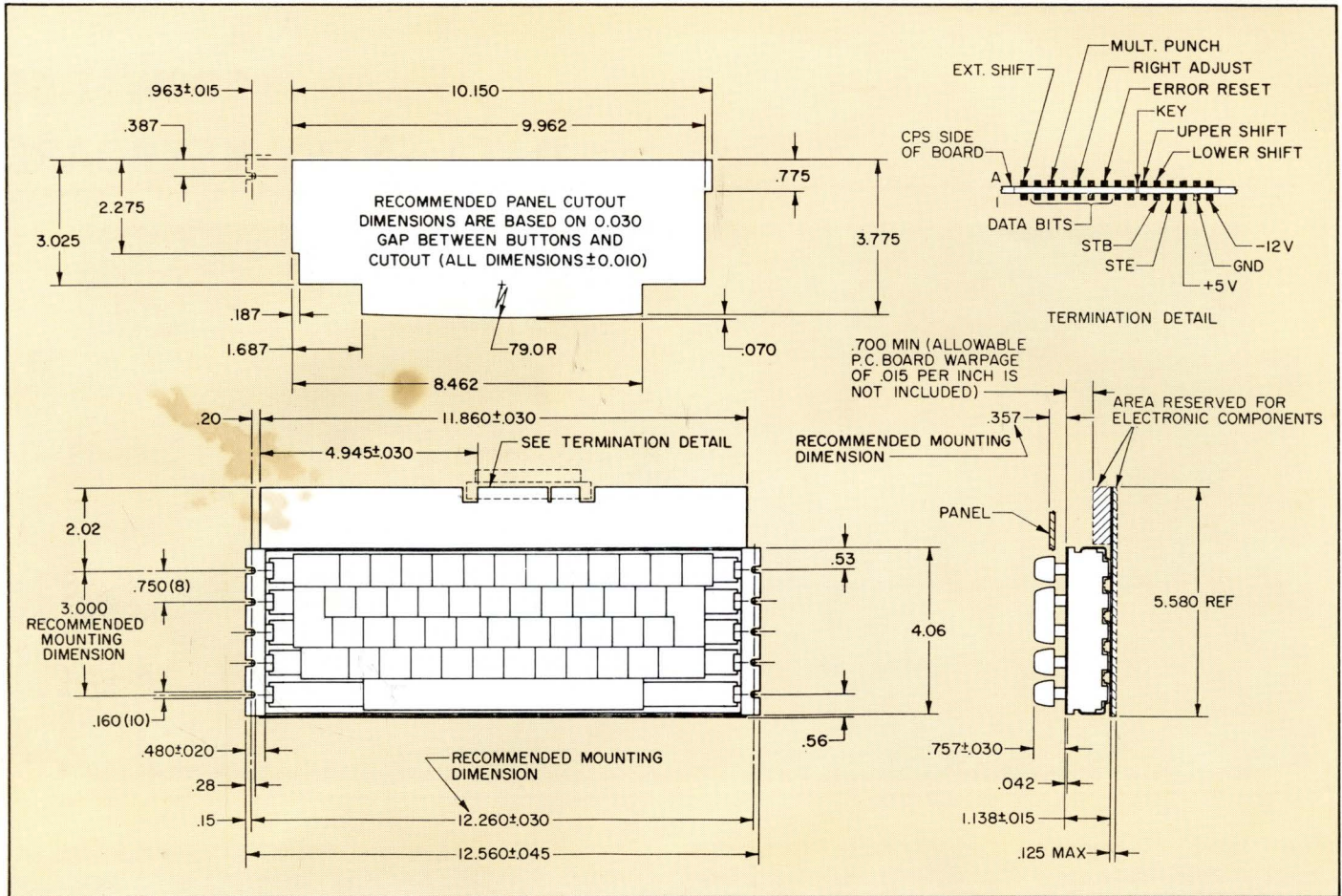
HIGH RELIABILITY AND LONG LIFE
SIX BIT BINARY CODE

FAMILIAR KEYPUNCH ARRAY
N-KEY ROLLOVER

"OFF-THE-SHELF AVAILABILITY"
PROM CAPABILITY

DATA ENTRY KEYBOARD

product sheet 50SW11-50



ELECTRICAL DATA

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

BUTTONS

MICRO SWITCH two-shot molded truncated buttons: Blue button with white legend stations: 10, 22, 23, 24, 36, 37, 38, 50, 51, and 52.

Dark gray with white legend stations: 2, 7, 8, 11, 12, 13, 14, 26, 27, 29, 39, 40, 43, 53, and 54. All remaining keys white with black legends. Space bar is white.

KEY ROW OFFSET

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

KEY SPACING

Keys are spaced on 3/4 inch centers.

WEIGHT

2.75 lbs. approx.

PROM CAPABILITY

Provides quick turnaround prototypes for individual customer requirements.

DATA ENTRY KEYBOARD

product sheet 50SW11-50

CODE AND CHARACTER ASSIGNMENT

2	3	4	5	6	7	8	9	10	11	12	13	14
MULT PUNCH	@	#	, * \$	· \$	READ	DUP	— —	0 /	PROG 1	PROG 2	PROG 3	PROG 4
16	17	18	19	20	21	22	23	24	25	26	27	
+ Q	— W	! E	: R	; T	= Y	 U	2 I	3 O	& P	REL	RIGHT ADJUST	
29	30	31	32	33	34	35	36	37	38	39	40	
ERROR RESET	< A	> S	} D	' F	— G	¢ H	4 J	5 K	6 L	SKIP	FLD ERASE	
43	44	45	46	47	48	49	50	51	52	53	54	
UPPER SHIFT	% Z	? X	' C	" V	(B) N	7 M	8 ,	9 ·	AUX DUP	LOWER SHIFT	
60												

SIX BIT BINARY CODE

KEY NO.	BITS					
	5	4	3	2	1	0
2	FUNCTION					
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
16	0	1	0	0	0	0
17	0	1	0	0	0	1
18	0	1	0	0	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
27	FUNCTION					

KEY NO.	BITS					
	5	4	3	2	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
38	1	0	0	1	1	0
39	1	0	0	1	1	1
40	1	0	1	0	0	0
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

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.

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

Hartford, Connecticut 06101

90 Brainard Road
203/549-3800

New York Office

Elmsford, New York 10523
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215/643-5820

Rochester, New York 14623

100 Metro Park
716/461-1600

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7485 Henry Clay Boulevard
315/451-4000

Westfield, N.J. 07090

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Kansas City, MO: 816/358-4200

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Toledo, OH: 419/242-8683

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Minneapolis, Minnesota 55435

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Memphis, Tennessee 38131

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