

MICRO SWITCH

product sheet **70SW12-1**
REMOTE BATCH KEYBOARD



The 70SW12-1 keyboard incorporates the proven approach of MICRO SWITCH Hall effect solid state keys coupled to MOS encoding. Plus, high quality printed circuit boards, rigid stainless steel mounting hardware, and double-shot molded buttons to ensure long trouble-free service.

The touch typing key arrangement (which conforms to the USA standard for typewriter pairing) assures instant familiarity for operators trained on office typewriters. Sculptured buttons provide a contoured typing surface to add to operator comfort and keyboard appearance.

With the N-key rollover feature, data bits are set by a pulse from the down stroke of a key and 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 (eliminating the possibility of missing a character or transposing characters).

The 1 x 4 block array to the left of the touch-typing array has the most frequently used USASCII control codes for remote batch equipment. The numeric block to the right is especially important for remote batch operations which consist of mostly numeric data.

If your requirements do not fit the 70SW12-1, we will gladly work with you to specify a keyboard tailored to your exact needs.

features

SOLID STATE KEYS

MOS ENCODING

USASCII CODE

TWO MODES OF OPERATION

N-KEY ROLLOVER

SCULPTURED BUTTONS

CHARACTER PAIRING IN TOUCH-TYPING ARRAY CONFORMS TO USA TYPEWRITER STANDARD

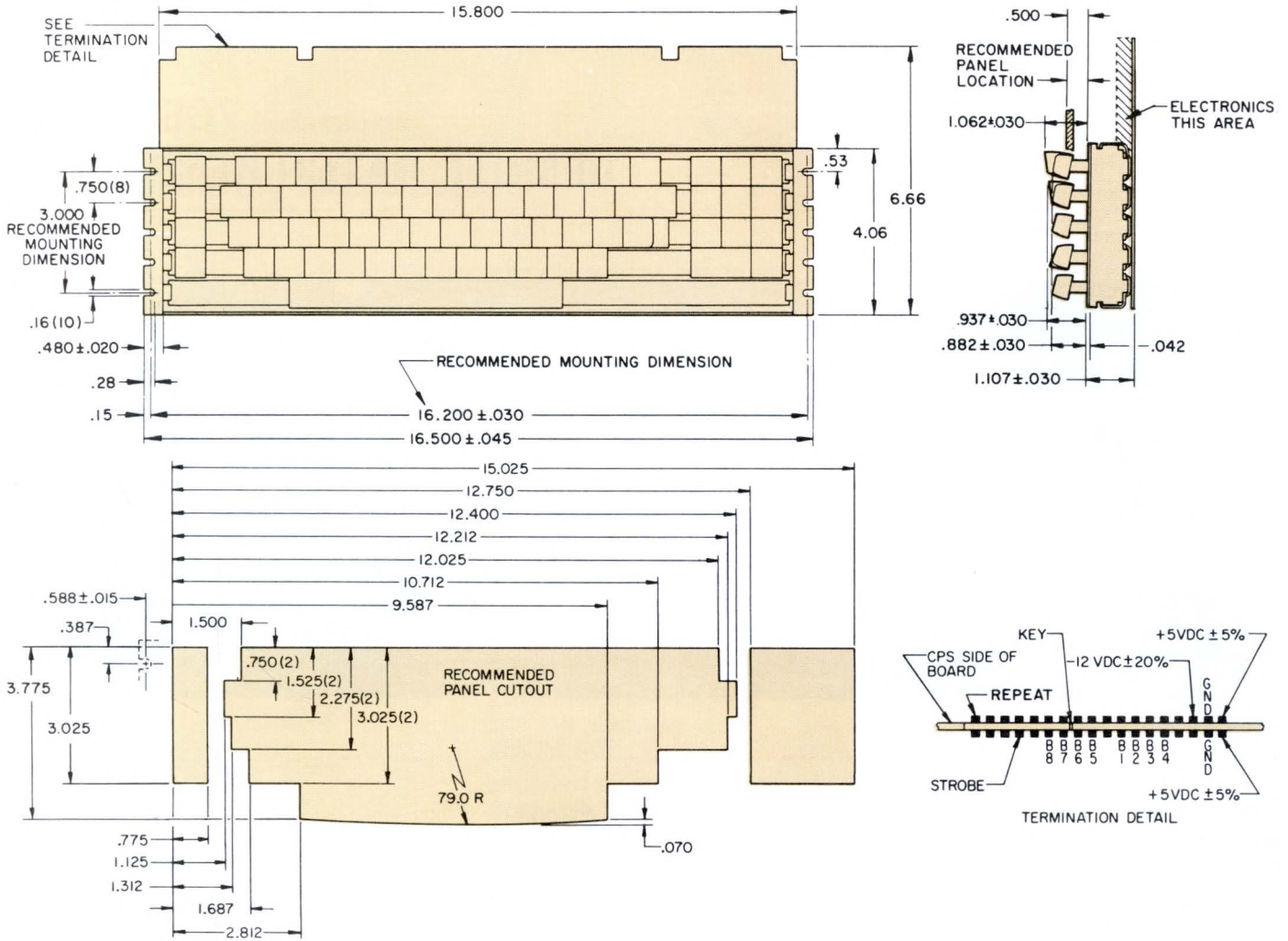
NUMERIC PAD

ALTERNATE-ACTION SHIFT LOCK KEY

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ELECTRICAL DATA

Power Requirements	+5 volts DC ±5% @ 1.2 Amperes max. -12 volts DC ±20% @ 5 milliamps max. Keyboard Ground @ 0 volts Note: Tolerances include ripple.
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.
Function Key Outputs	<u>Key Unoperated</u> : +0.25 volts DC max. with load resistance of 2500 ohms or less. <u>Key Operated</u> : +2.8 volts DC min. 1 to 10 milliamp current source.
Strobe Outputs	All keys in unoperated state: +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 micro seconds min. <u>Timing</u> : Data bits are true prior to strobe pulse.

OUTPUT INTERFACE

Card-edge outputs with gold plated terminals accept standard connectors such as: Cinch-Jones #25 1-15-36-160 or equivalent.

BUTTONS

MICRO SWITCH keyboards offer the sculptured button style in the touch-typing area, and stepped button orientation in the outboard blocks. Touch-typing key buttons are off-white with dark gray legends. Block key buttons are gray with white legends.

KEYROW OFFSET

3/8 - 3/16 - 3/8 inch in touch-typing array.

KEY SPACING

Keys are spaced on 3/4-inch centers.

WEIGHT

2.75 lbs. approximately.

SHIFT LOCK

An alternate-action key is used for shift lock. The keyboard is put into the shifted mode when the shift lock key is operated and returned to the unshifted mode when the shift-lock key is operated a second time. In the operated condition, the shift-lock remains about 3/16 inch below the other keys to indicate to the operator that the keyboard is in the shifted mode.

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CODE AND CHARACTER ASSIGNMENT



USASCII ODD PARITY

KEY NO.	UNSHIFTED				SHIFTED			
	CHAR	BITS			CHAR	BITS		
		P	765	4321		P	765	4321
1	FUNCTION OUTPUT							
3	1	0	011	0001	!	1	010	0001
4	2	0	011	0010	@	0	100	0000
5	3	1	011	0011	#	0	010	0011
6	4	0	011	0100	\$	1	010	0100
7	5	1	011	0101	%	0	010	0101
8	6	1	011	0110	^	0	101	1110
9	7	0	011	0111	&	0	010	0110
10	8	0	011	1000	*	0	010	1010
11	9	1	011	1001	(	1	010	1000
12	0	1	011	0000	)	0	010	1001
13	-	1	010	1101	_	1	101	1111
14	=	0	011	1101	+	1	010	1011
15	~	1	110	0000	~	1	111	1110
16	BS	0	000	1000	BS	0	000	1000
18	1	0	011	0001		1	010	0001
19	2	0	011	0010		0	100	0000
20	3	1	011	0011		0	010	0011
21	CLEAR	0	111	1111	CLEAR	0	111	1111
22	TAB	1	000	1001	TAB	1	000	1001
23	q	1	111	0001	Q	0	101	0001
24	w	1	111	0111	W	0	101	0111
25	e	1	110	0101	E	0	100	0101
26	r	1	111	0010	R	0	101	0010
27	t	1	111	0100	T	0	101	0100
28	y	0	111	1001	Y	1	101	1001
29	u	0	111	0101	U	1	101	0101
30	i	1	110	1001	I	0	100	1001
31	o	1	110	1111	O	0	100	1111
32	p	0	111	0000	P	1	101	0000
33	[	0	101	1011	]	0	101	1101
34	\	1	101	1100	|	0	111	1100
35	CR	0	000	1101	CR	0	000	1101
38	4	0	011	0100		1	010	0100
39	5	1	011	0101		0	010	0101
40	6	1	011	0110		0	101	1110
41	RS	1	001	1110	RS	1	001	1110
42	SHIFT LOCK							

KEY NO.	UNSHIFTED				SHIFTED			
	CHAR	BITS			CHAR	BITS		
		P	765	4321		P	765	4321
43	a	0	110	0001	A	1	100	0001
44	s	0	111	0011	S	1	101	0011
45	d	0	110	0100	D	1	100	0100
46	f	1	110	0110	F	0	100	0110
47	g	0	110	0111	G	1	100	0111
48	h	0	110	1000	H	1	100	1000
49	j	1	110	1010	J	0	100	1010
50	k	0	110	1011	K	1	100	1011
51	l	1	110	1100	L	0	100	1100
52	;	0	011	1011	:	1	011	1010
53	'	1	010	0111	"	1	010	0010
54	{	1	111	1011	}	1	111	1101
55	LF	1	000	1010	LF	1	000	1010
58	7	0	011	0111		0	010	0110
59	8	0	011	1000		0	010	1010
60	9	1	011	1001		1	010	1000
61	VT	0	000	1011	VT	0	000	1011
63	SHIFT							
64	z	0	111	1010	Z	1	101	1010
65	x	1	111	1000	X	0	101	1000
66	c	1	110	0011	C	0	100	0011
67	v	0	111	0110	V	1	101	0110
68	b	0	110	0010	B	1	100	0010
69	n	0	110	1110	N	1	100	1110
70	m	0	110	1101	M	1	100	1101
71	.	0	010	1100	<	1	011	1100
72	.	1	010	1110	>	0	011	1110
73	/	0	010	1111	?	1	011	1111
74	SHIFT							
78	0	1	011	0000		0	010	1001
80	.	1	010	1110		0	011	1110
81	SP	0	010	0000	SP	0	010	0000

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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