

MICRO SWITCH

product sheet 58SD16-1 DATA ENTRY KEYBOARD



The 58SD16-1 is a low profile, modestly priced, solid state keyboard, ideally suited for data entry systems, especially key-to-diskette ("floppy-disk"). The key array is similar to that used with the familiar IBM 3740 and features code compatibility. This keyboard more than meets the needs of the data entry market for long life and high reliability.

Every aspect of the keyboard is designed for operator acceptance, convenience, and for maximum throughput. This includes proven operating force displacement characteristics, key spacing, button shapes and legending. In addition, tactile feedback is provided on all keys. This tactile feedback is felt as an abrupt change in force at approximately the operating point of the switch. If tactile feel is not desired order listing 58SD16-2.

Six bit mono-mode encoding meets the basic data entry requirements. A six bit address code is generated by each data key. The alpha and numeric shift keys and both repeat keys provide level function outputs.

The 58SD16-1 or 58SD16-2 keyboard feature true N-key rollover. Data bits, set by a pulse from the down stroke as each key is depressed, are stored in the 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. This proven feature can reduce operator error by as much as 30%. For improved reliability the pulsed output is part of the solid state chip within each key.

The 58SD16-1 and 58SD16-2 keyboards incorporate the proven approach of MICRO SWITCH Hall effect solid state keys coupled to solid state encoding. High quality printed circuit boards, rigid steel mounting panels, and double-shot molded buttons are used to insure long trouble-free keyboard performance.

If the 58SD16-1 or 58SD16-2 doesn't meet your exact requirements, additional flexibility has been designed into the basic hardware. See page 4 for details.

features

DESIGNED TO MEET IBM'S 3740 KEY-TO-DISKETTE NEEDS

LOW PROFILE...Modern Panel Design

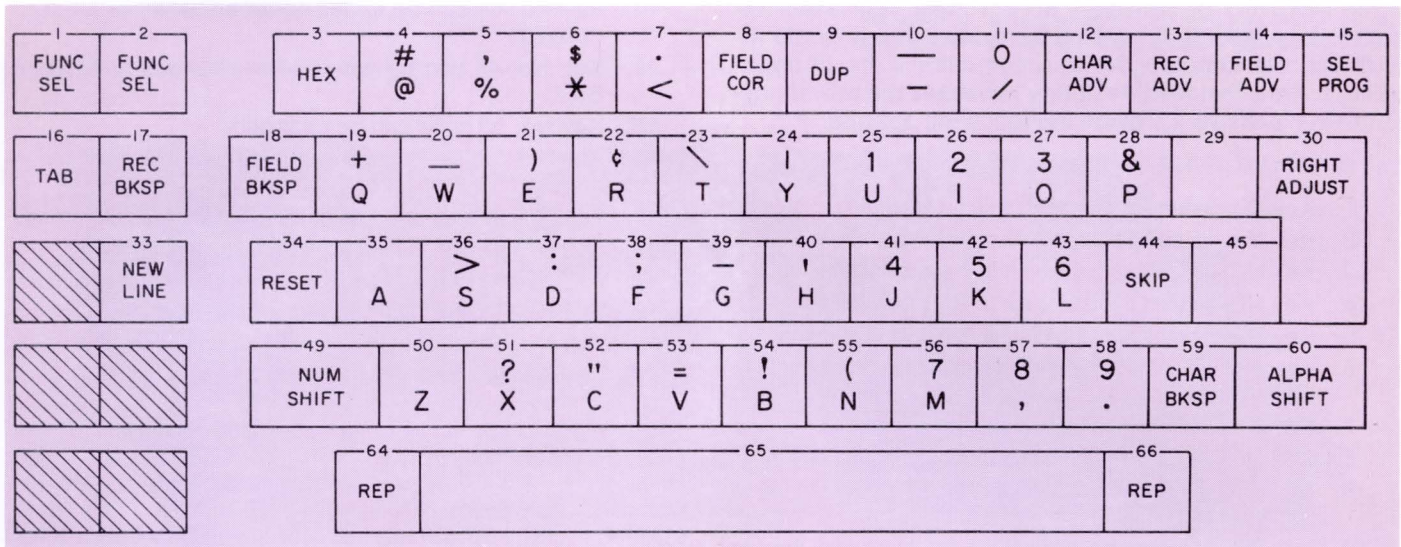
HALL EFFECT SOLID STATE KEYS COMBINED WITH SOLID STATE ENCODING...Gives Greater Reliability With Long Life

"N" KEY ROLLOVER...Reduces Operator's Error By 30%

TACTILE FEEDBACK...Positive Key Operation

"PROM" CAPABILITY

CHARACTER ASSIGNMENT



NOTE: Keys #29 and 45 are locked to prevent actuation.

BUTTONS

The button colors for key stations 2, 3, 8, 9, 12, 14, 15, 16, 17, 18, 30, 33, 34, 49, 59, 60, 64, and 66 are charcoal gray with white legends.

The button colors for key stations 4, 5, 6, 7, 10, 11, 13, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 50, 51, 52, 53, 54, 55, 56, 57, and 58 are medium gray with white legends.

Key position 1 is charcoal gray with kelly green legend.

Key positions 29, 45, and 65 are charcoal gray with no legends.

CODE ASSIGNMENT

Six Bit Binary Code

KEY NO.	BITS					
	5	4	3	2	1	0
1	0	0	0	0	1	0
2	0	0	0	0	0	1
3	0	0	0	0	1	1
4	0	0	1	1	1	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	1	0	1	1	0	1
11	1	0	0	0	0	0
12	0	0	1	0	1	0
13	1	0	1	1	0	0
14	0	0	1	1	0	0
15	0	0	1	1	0	1
16	1	0	1	1	1	0
17	1	1	1	0	0	0
18	1	1	0	0	0	0
19	1	0	1	0	1	0
20	0	1	0	0	0	0

KEY NO.	BITS					
	5	4	3	2	1	0
21	1	1	1	1	1	0
22	0	1	0	0	0	1
23	0	1	0	0	1	0
24	0	1	0	0	1	1
25	1	0	0	0	0	1
26	1	0	0	0	1	0
27	1	0	0	0	1	1
28	0	1	0	1	0	0
29	1	1	1	0	0	1
30	1	1	0	1	0	1
33	1	1	0	1	1	0
34	1	1	0	0	1	0
35	1	1	1	0	1	0
36	0	1	0	1	0	1
37	1	1	1	1	0	1
38	1	1	1	1	1	1
39	0	1	0	1	1	0
40	0	1	0	1	1	1
41	1	0	0	1	0	0
42	1	0	0	1	0	1

KEY NO.	BITS					
	5	4	3	2	1	0
43	1	0	0	1	1	0
44	0	1	1	1	0	0
45	0	1	1	1	0	1
49	NUM SHIFT					F8
50	0	1	1	0	0	0
51	0	1	1	0	0	1
52	1	1	1	1	0	0
53	0	1	1	0	1	0
54	1	1	1	0	1	1
55	0	1	1	0	1	1
56	1	0	0	1	1	1
57	1	0	1	0	0	0
58	1	0	1	0	0	1
59	0	1	1	1	1	0
60	ALPHA SHIFT					F9
64	REPEAT					F10
65	0	1	1	1	1	1
66	REPEAT					F11

