

Layouts



G80-2500

Comfort Keyboard for IBM* 3270 Terminal Families.

* IBM is the registered trademark of the IBM Corporation.



Main Advantages

- Compatibel to IBM* 3270 terminal families.
- Serial interface.
- The layout is designed according to the IBM* original.
- High price/performance ratio achieved by:
 - specific application of high quality materials, UL approved.
 - automated manufacturing procedures with integrated test stations.
 - most modern Quality Control system defined by DIN ISO 9001.

- performance of failure methods such as FMEA and SPC.
- fulfillment of the latest ergonomic requirements which for example meet ZH 1/ 618.
- 4mm full-travel keyswitches.
- Cherry MX keys with »Gold Crosspoint« contacts.
- Reliability: MCBF = 1×10^9 operations.
MTBF = 80.000 hours.
- Long life expectancy of individual keys: $> 50 \times 10^6$ operations.

- Fatigue-free operation with minimal risk of multiple actuation, enabled by ergonomic »Cylindrical« key set.
- "Deep Dish" sculptured keys for F and J index finger locations and a dimple on the 5 in the numeric pad for quick and accurate homing when touch-typing.
- 2-shot moulded keycaps are non-reflecting and easy to clean.
- Wear resistant keycap legends.

- Safety:



- RFI/EMI:

FCC Part 15
Subpart J
Class B

Post Vfg. 1046 / 1984
(VDE 0871, Klasse B)



Important Features

- Mechanical keymodules with »Gold Crosspoint« contacts.
- Separate cursor and numeric pads as well as twin-rows of function keys.
- Synchronous data format.
- N-key-rollover.
- Linear feel. Additional versions (Soft tactile feedback, tactile »click«) upon request.
- Available key layouts: US-English, German and French. Additional versions upon request.
- Electromagnetic compatibility (EMC)
 - ESD (in compliance with IEC 801-2): 15 kV.
 - RFI/EMI: - Post-Vfg. 1046 / 1984 (VDE 0871 Class B)
 - FCC Part 15, Subpart J, Class B.

Electrical Data

Power supply:
+ 5V ± 5% (optional + 12V), typically 200 mAmp.

Interface:
Bidirectional, synchronised serial. The keyboard communicates via clock and data line with the system.

Data format:
Data transfer to and from keyboard via data line. Data transfer format: 11 bits, 1 start bits (LOW), 8 data bits (lowest first), 1 parity bit (parity odd) and 1 stop bit (HIGH).

Data output:
Open collector TTL.

Key buffer:
5 Byte FIFO.

Keyboard input sequence:
N-key-rollover.

Codes:
Parameters programmable from system whether key generates a code upon closing only or upon closing as well as opening.

Autorepeat function:
Parameters are programmable through system. The repeat frequency can be programmed from 2 – 30 Hz. Repeat delay can be programmed from 0.25 – 1 sec.

Reset function:
The keyboard generates an automatic reset function.

Keyboard self-diagnostic test:
After POWER ON and on request.

Preparation of specifications on the components including their technical data is performed due to internal Cherry tests in accordance with approved rules only.

Notes for end users:
With respect to the variety of applications we suggest to consult an expert due to product modifications.

Mechanical Data

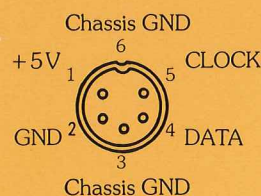
Total travel: 4 – 0,4 mm.
Pretravel: 2 ± 0,6 mm.
Operating force: 60 ± 20 cN.
Storage temperature: -40° C (-40° F) to +70° C (+158° F).
Operating temperature: -10° C (+32° F) to +70° C (+158° F).

Pin Assignment

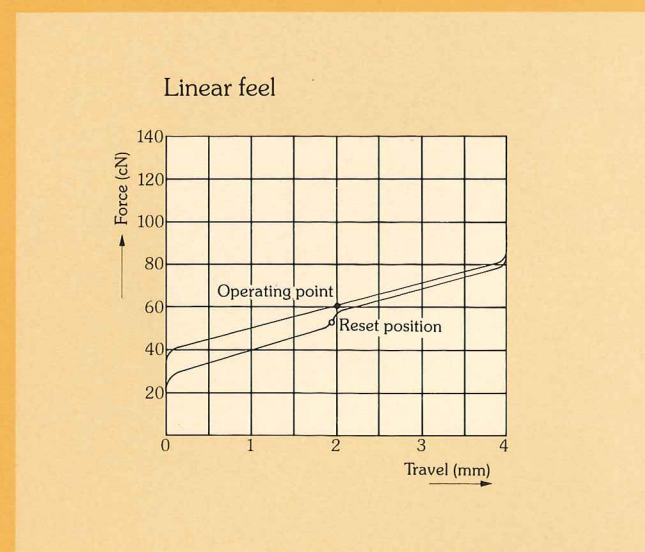
Pin	Assignment
1	Vcc
2	GND
3	Shielding
4	DATA
5	CLOCK
6	Shielding

Keyboard Cable

2 m shielded and coiled cable, pebble-grey with 5-pole DIN plug 240°.



Force/Travel Diagram

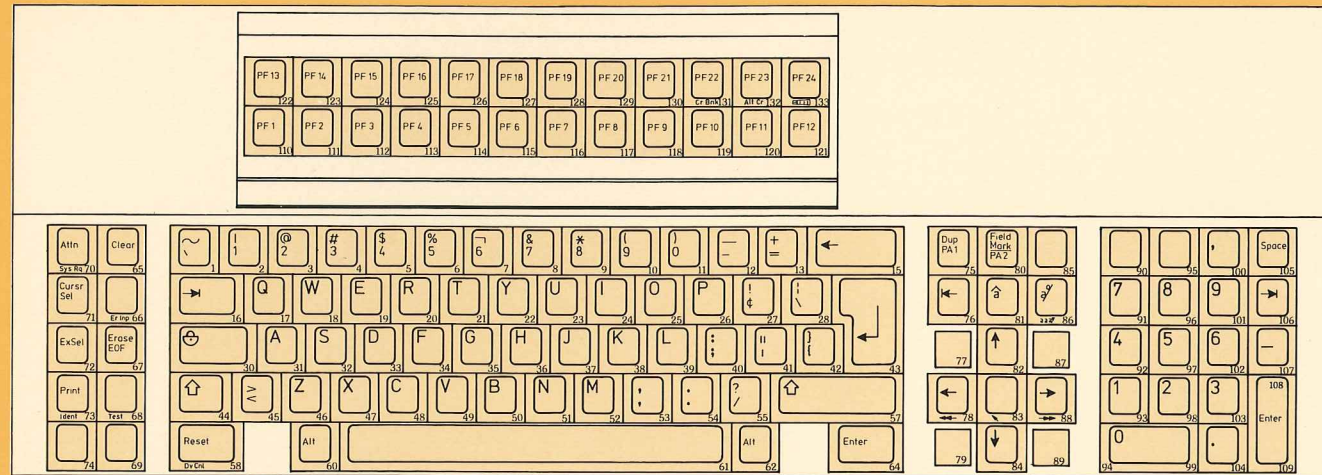


Codes

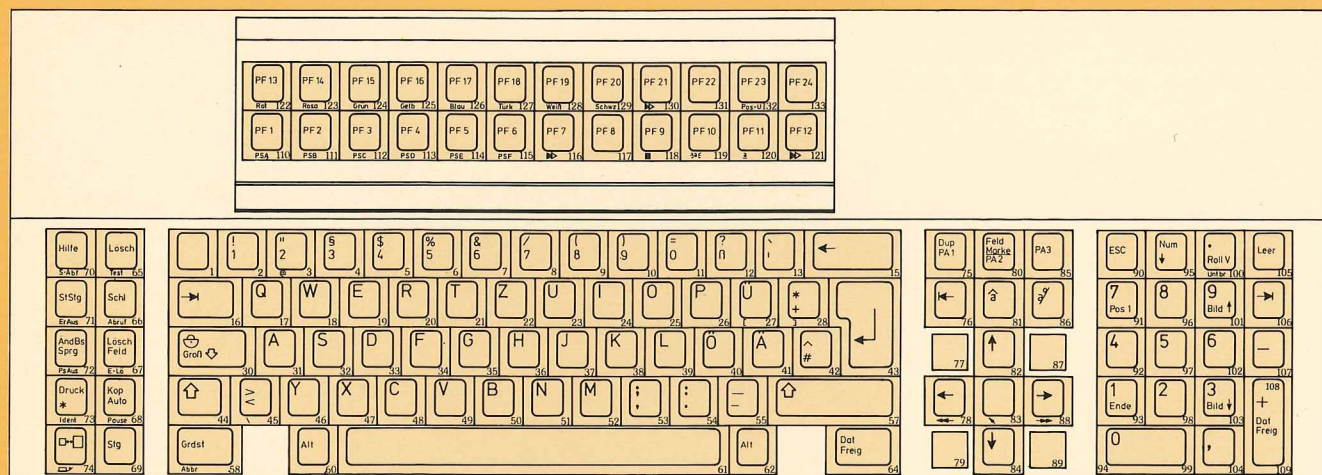
Key	Code	Status	Key	Code	Status	Key	Code	Status
1	0E	AR	46	1A	AR	91	6C	M
2	16	AR	47	22	AR	92	6B	M
3	1E	AR	48	21	AR	93	69	M
4	26	AR	49	2A	AR	94	68	M
5	25	AR	50	32	AR	95	77	M
6	2E	AR	51	31	AR	96	75	M
7	36	AR	52	3A	AR	97	73	M
8	3D	AR	53	41	AR	98	72	M
9	3E	AR	54	49	AR	99	70	M
10	46	AR	55	4A	AR	100	7E	M
11	45	AR	56	51	AR	101	7D	M
12	4E	AR	57	59	M/B	102	74	M
13	55	AR	58	11	M/B	103	7A	M
14	5D	AR	59	-	-	104	71	M
15	66	AR	60	19	M/B	105	84	M
16	0D	AR	61	29	AR	106	7C	AR
17	15	AR	62	39	M/B	107	7B	AR
18	1D	AR	63	-	-	108	79	M
19	24	AR	64	58	M/B	109	78	M
20	2D	AR	65	06	M	110	07	M
21	2C	AR	66	0C	M	111	0F	M
22	35	AR	67	0B	M	112	17	M
23	3C	AR	68	0A	M	113	1F	M
24	43	AR	69	09	M	114	27	M
25	44	AR	70	05	M	115	2F	M
26	4D	AR	71	04	M	116	37	M
27	54	AR	72	03	M	117	3F	M
28	5B	AR	73	83	M	118	47	M
29	5C	AR	74	01	M	119	4F	M
30	14	M/B	75	67	M	120	56	M
31	1C	AR	76	64	AR	121	5E	M
32	1B	AR	77	-	-	122	08	M
33	23	AR	78	61	AR	123	10	M
34	2B	AR	79	-	-	124	18	M
35	34	AR	80	6E	M	125	20	M
36	33	AR	81	65	M	126	28	M
37	3B	AR	82	63	AR	127	30	M
38	42	AR	83	62	M	128	38	M
39	4B	AR	84	60	AR	129	40	M
40	4C	AR	85	6F	M	130	48	M
41	52	AR	86	6D	AR	131	50	M
42	53	AR	87	-	-	132	57	M
43	5A	AR	88	6A	AR	133	5F	M
44	12	M/B	89	-	-			
45	13	AR	90	76	M			

M = Make only; M/B = Make-Break; AR = Automatic Repeat
Codes shown in hexadezimal.

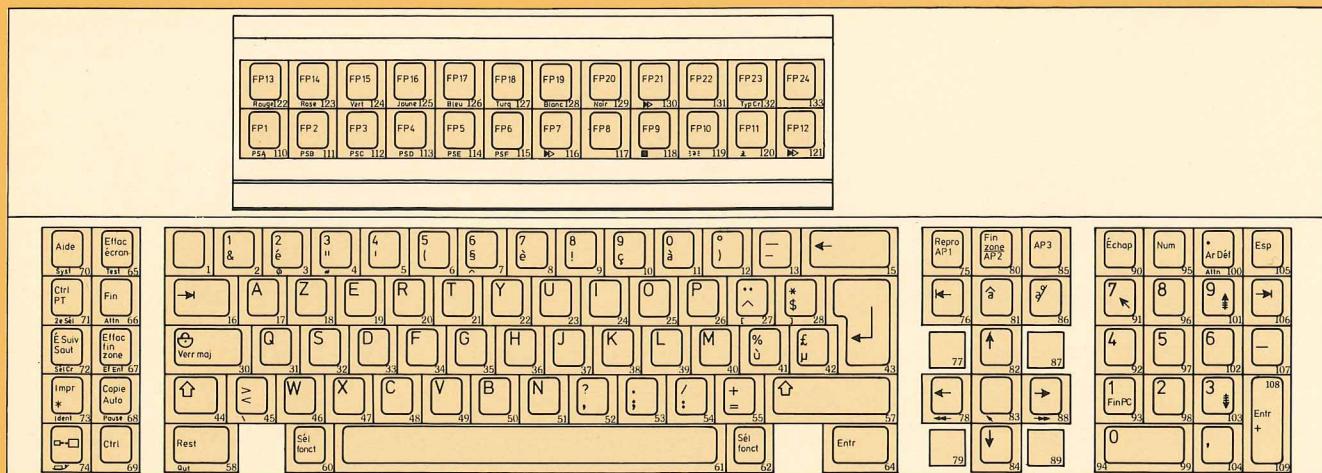
US-English Layout



German Layout



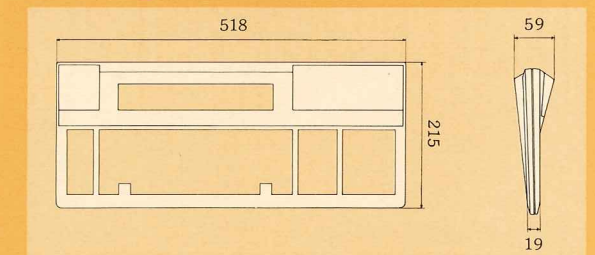
French Layout



Ordering Code

US-English	German	French
G80-2500 HAU	G80-2500 HAD	G80-2500 HAF

Housing Dimensions



Housing



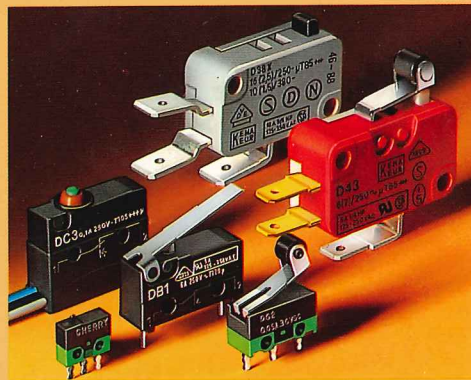
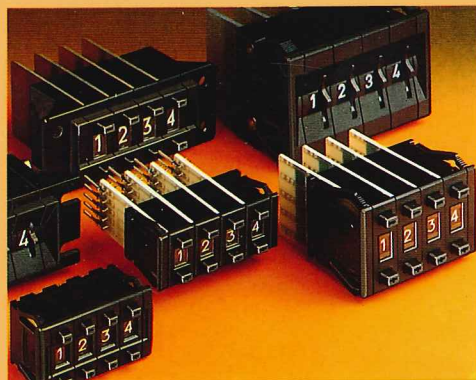
Switch to the Future.

Keyboards of high technology and excellent quality.

With high switching reliability even for speed typing. Standard or customized, intelligent or non-encoded versions. Connectable to all popular EDP systems. Modern design. Harmony in colours. Variety of sizes and heights. Ergonomic styling. With or without housing.

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M8, M9, MX. Keyswitches with exceptional performance. High switching reliability by »Gold Crosspoint« contacts. Low profile design. Excellent touch feeling. Variety of keycap styles and colours. Ideal for ergonomically designed keyboards.

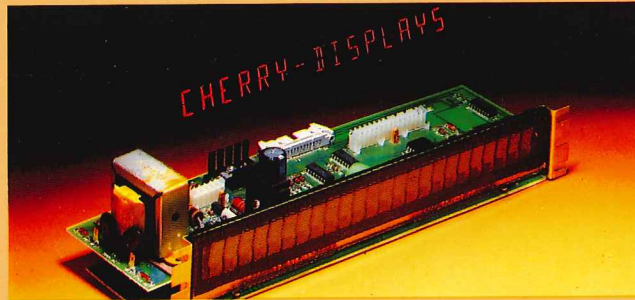
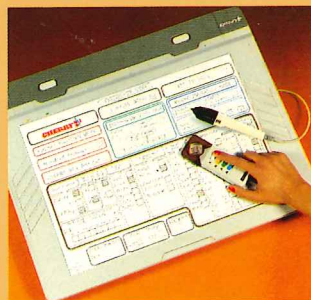


Selector switches with assured security and long life.

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With absolute and continuous brightness of all letters. Stable displays picture. Big lettersize. Long life. With or without housing available.

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