G 80-0777

IBM*-AT compatible Keyboard with separate Cursor Block.

 CHERRY

Main Advantages

- Uses of high performance Cherry MX keymodules.
- Precision contacts eliminate input errors.
- Long life ($> 2 \times 10^7$ operations).
- IBM*-AT plug compatible.
- Can be adapted for IBM*-PC compatibility.
- Available with housing and cable.
- Mechanically strong construction.
- PCB supported by rigid coverplate.
- Easily operable with ergonomic "cylindrical style" keylayout.

- 4 mm full travel keyswitches.
- "Deep dish" for homekeys F and J and dimple on key 5 of numeric pad assure easy location for fingers when touch-typing.
- 2-shot molded matt keycaps that are wear resistant and easy to clean.
- Keycaps are available in light body color and darker legends (beige-grey, white-grey).
- Keyswitch materials conforming to KL 94.

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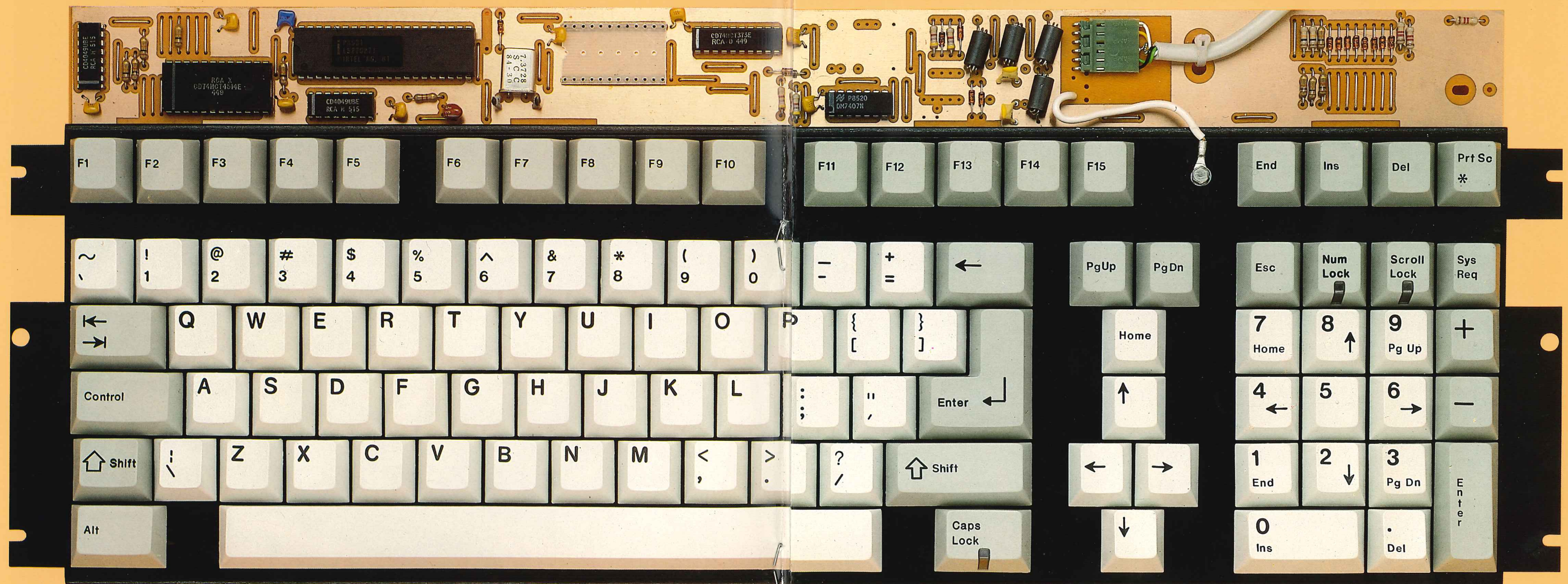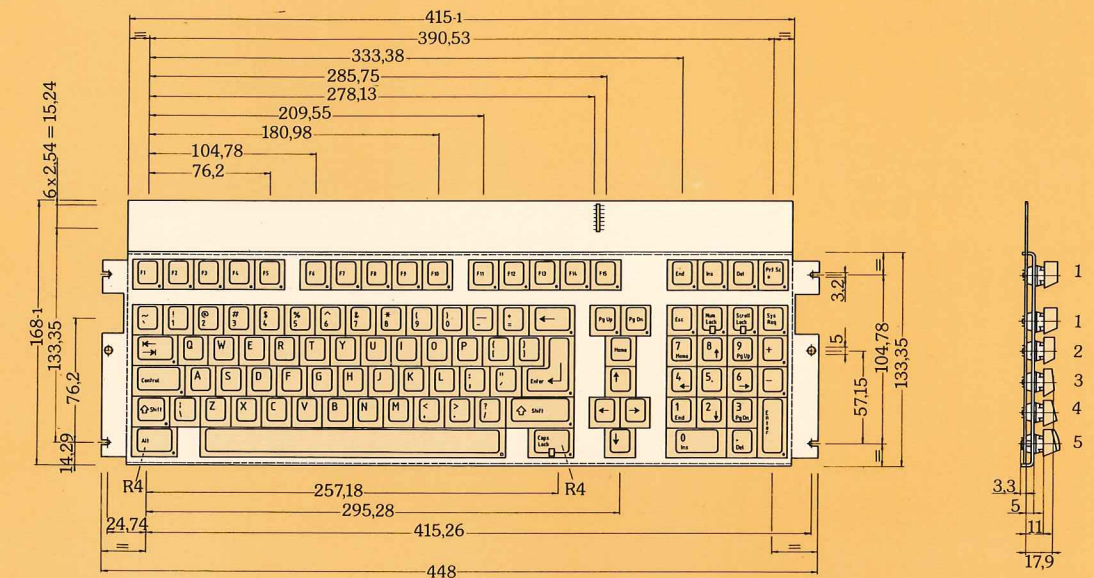
Important Features

- Mechanical keymodules with gold-crosspoint contacts.
- Low profile design (30 mm 3rd keyrow).
- Separate Cursorblock.
- Synchroneous dataformat.
- N-key-rollover.
- Interchangeable between AT- and PC-Mode.
- Autorepeat, programmable system.
- Keylayout: US-International, German or French. Additional versions for other countries available upon request.
- Standard keycap color: beige-grey and white-grey.

Electrical Data

Power supply:
+5 V ±5 %, current consumption, typically 200 mA.

Interface:
bidirectional, serial synchroneous. The keyboard communicates via clock- and dataline with the system.

Dataformat:
Datatransfer to and from the keyboard via dataline.

Dataword:
AT-Mode: Idle state: "Data & Clock" – high.
PC-Mode: 1 startbit, 8 databit
          Idle state: "Data" – low, "Clock" – high.

Dataoutput:
Open collector TTL.

Databuffer:
All codes are buffered before sending out.

Keyboard sequence:
N-key-rollover for all keys.

Codes:
Each key generates a code when opened or closed IBM*-formats:
AT-Mode: Make code, break code = code F0H + make code.
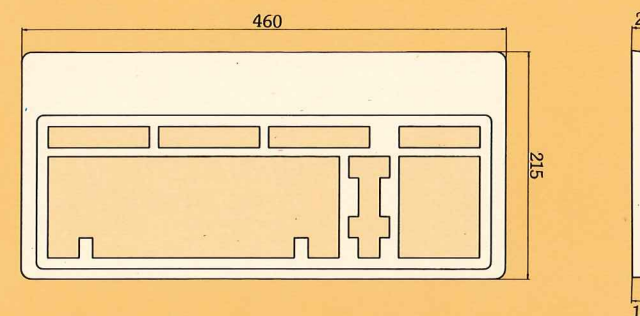PC-Mode: Make code, break code = made code + 80 H.

Automatic repeat function:
All keys have automatic repeat function.
Delay time and repeat sequence can be modified from system (Fixed for PC-Mode; 10 Hz after 100 msec. delay).

Reset function:
The keyboard automatically generates reset function.

Keyboard self diagnostic test:
After power-on or upon request from the system, the keyboard performs a self diagnostic test.
After positive test, the keyboard sends the code AA Hex.
Any other code is interpreted a failure.

Temperature range:
Storage temperature: –40°C to +70°C.
Operating temperature: 0°C to +65°C.

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Housing Dimensions

460

215

25

18

Keyboard Part Numbers

US-international	German	French
G 80-0777	G 80-0778	G 80-0779

For all keyboards the following accessories are available:

- Modern Lo-pro housing (sand-grey),
  Part No.: **G 99-0327.**
- 2 m shielded coiled cable, stone-grey, RAL 7032
  with 5 pin DIN connector,
  Part No.: **617-0338.**

When ordering keyboards with a housing and cable the suffix **H** has to be added to the keyboard part No. (example G 80- . . . **H**).

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Pin-Connector

AMP II, 7 poles, No. **825437-7**
or equivalent.

Connector Pin Assignment

Pin	Assignment
1	DATA
2	CLOCK
3	–
4	Chassis GND
5	+5 V
6	GND
7	–

Keyboard Cable

2 m shielded coiled cable,
stone-grey, with 5 pin DIN connector.

Pin Assignment

Pin	Assignment
1	CLOCK
2	DATA
3	–
4	GND
5	+5 V

Codes

| Key No.	Code AT	Code PC	Key No.	Code AT	Code PC	Key No.	Code AT	Code PC
01	05	3B	35	7A	51	69	52	28
02	06	3C	36	76	01	70	5A	1C
03	04	3D	37	77	45	71	75	48
04	0C	3E	38	7E	46	72	6B	4B
05	03	3F	39	84	54	73	73	4C
06	0B	40	40	0D	0F	74	74	4D
07	83	41	41	15	10	75	7B	4A
08	0A	42	42	1D	11	76	12	2A
09	01	43	43	24	12	77	5D	2B
10	09	44	44	2D	13	78	1A	2C
11	85	55	45	2C	14	79	22	2D
12	86	56	46	35	15	80	21	2E
13	87	57	47	3C	16	81	2A	2F
14	88	58	48	43	17	82	32	30
15	89	59	49	44	18	83	31	31
16	69	4F	50	4D	19	84	3A	32
17	70	52	51	54	1A	85	41	33
18	71	53	52	5B	1B	86	49	34
19	7C	37	53	6C	47	87	4A	35
20	0E	29	54	6C	47	88	59	36
21	16	02	55	75	48	89	6B	4B
22	1E	03	56	7D	49	90	74	4D
23	26	04	57	79	4E	91	69	4F
24	25	05	58	14	1D	92	72	50
25	2E	06	59	1C	1E	93	7A	51
26	36	07	60	1B	1F	94	11	38
27	3D	08	61	23	20	95	29	39
28	3E	09	62	2B	21	96	58	3A
29	46	0A	63	34	22	97	72	50
30	45	0B	64	33	23	98	70	52
31	4E	0C	65	3B	24	99	71	53
32	55	0D	66	42	25	100	5A	1C
33	66	0E	67	4B	26			
34	7D	49	68	4C	27			

Keyboard G 80-0777 – US-international layout
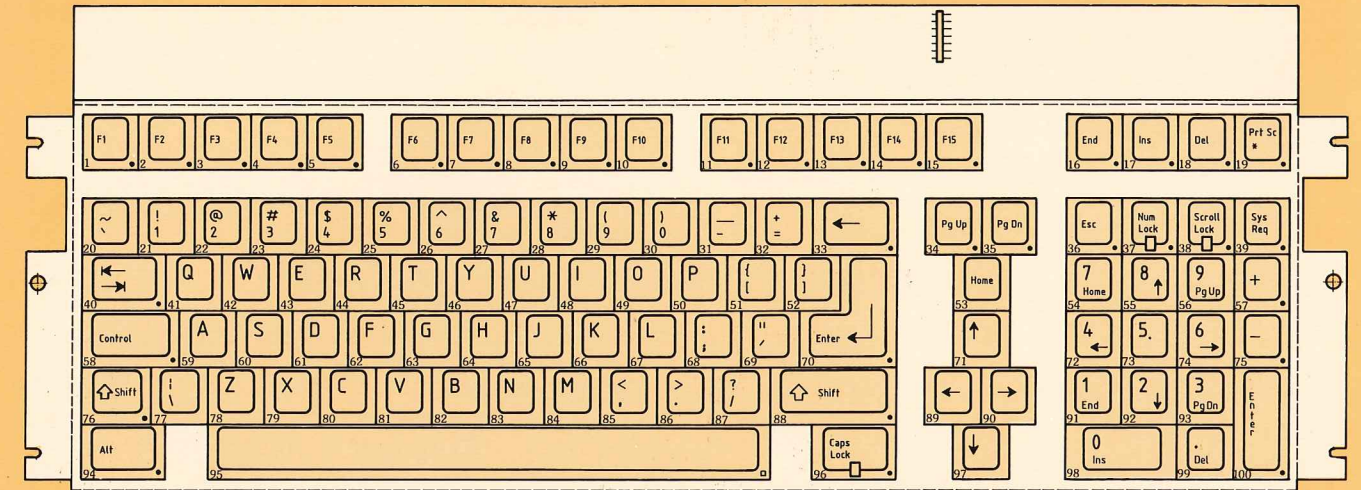
Keyboard G 80-0778 – German layout
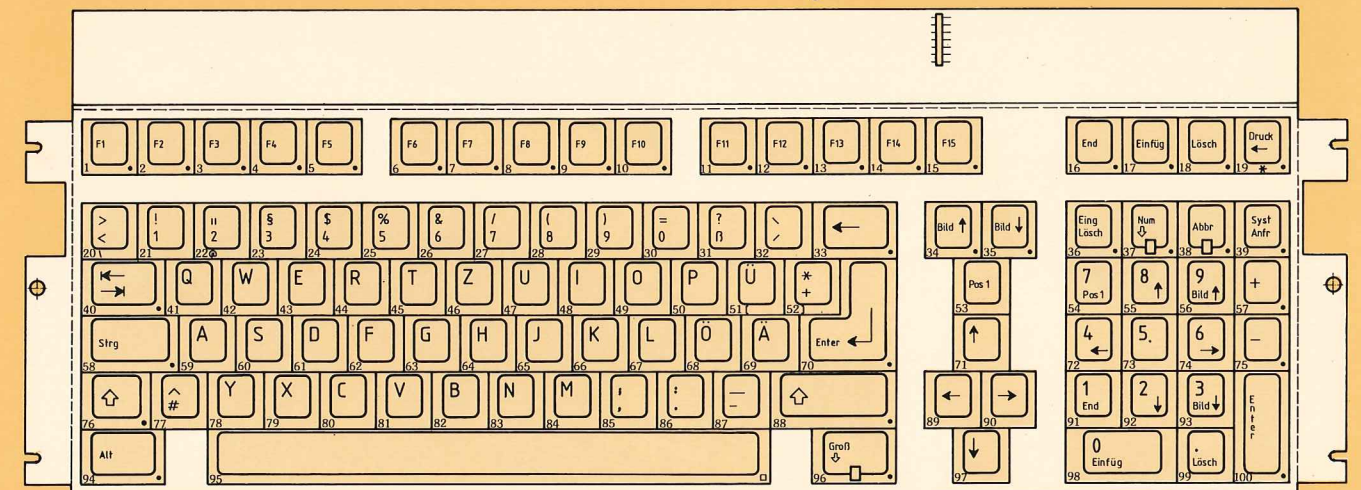
Keyboard G 80-0779 – French layout
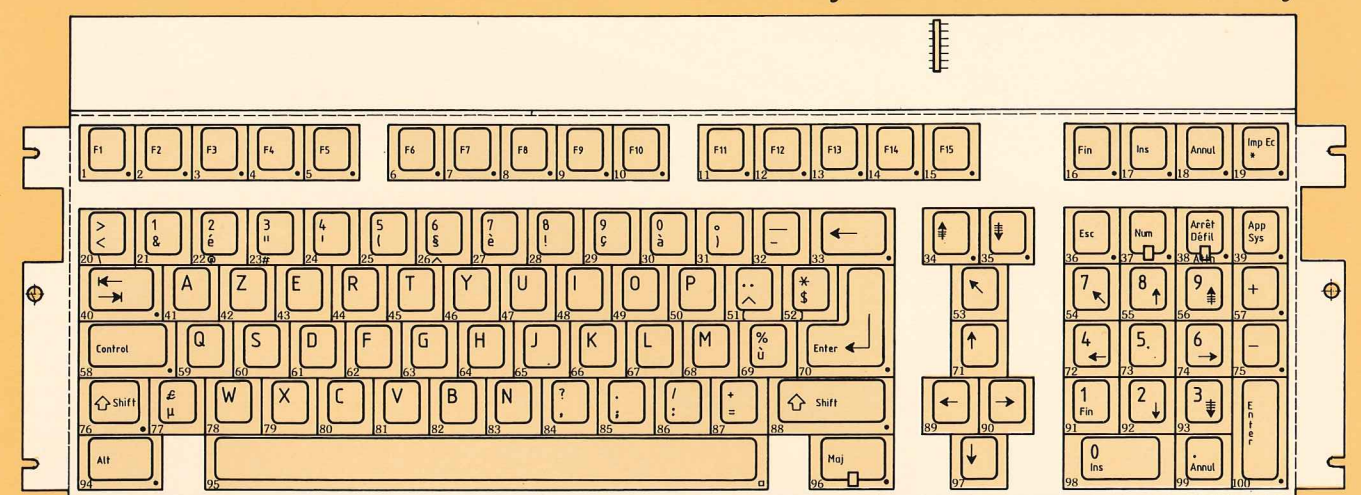
Cherry Program

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 colors. Variety of sizes and heights. With cable or infrared link. Ergonomic styling. With or without housing.


Thumbwheelswitches with assured security and long life.

Available in many standard and customized codes. Thumbwheel-, leverwheel- or push-version. Gang assemblies. Solderpins, connectors or plain soldering. Standard-, miniature- and subminiature-sizes. Also illuminated by LEDs or lamps. Customized lettering and stop limitation is available.


Snap action switches for the future.

For precise switching and highest reliability. Large scale of standard and non-standard models. Many different connecting possibilities. Standard-miniature and subminiature sizes. And a large number of auxiliary actuators.
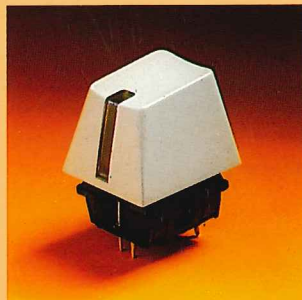
Keymodules. For high technology keyboards.

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 colors. Ideal for ergonomically designed keyboards.
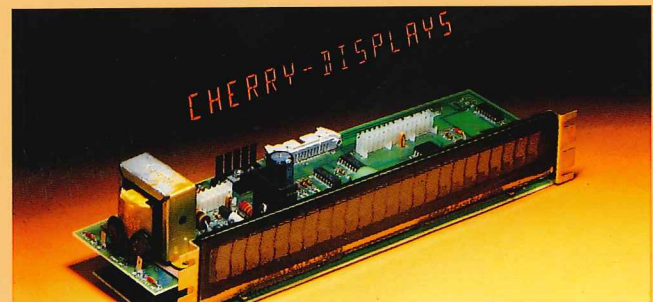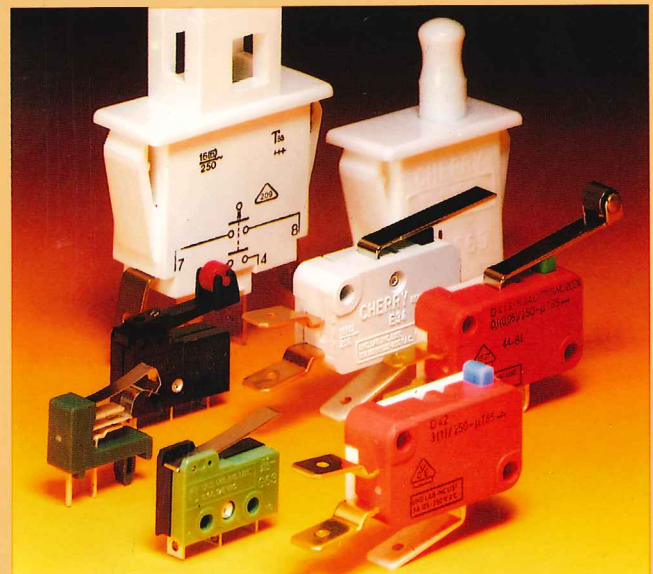
Ready-to-use alphanumerical displays with excellent reading ability.

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