

-1,76 DM



# G 80-0517

**The Cherry "Bat".  
Infrared-link-Keyboard.  
For IBM\*-PCs,  
(changeable from PC Standard to PC Junior)  
and for IBM\*-plug-compatible PCs.**

\*IBM is the registered trade-mark of International Business Machines Corporation.





### Main Advantages

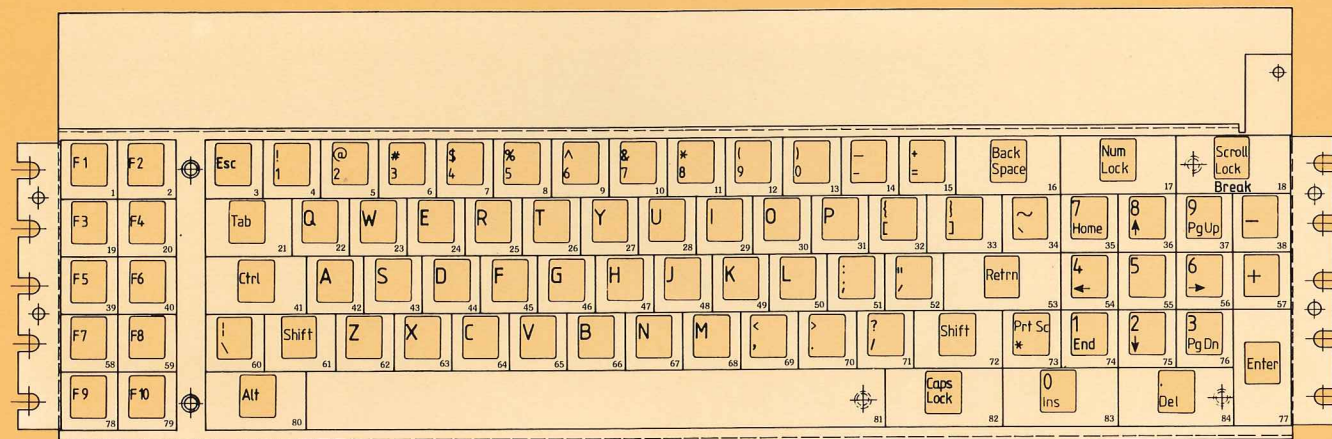
- Precision contacts avoid input errors.
- Long life (> 2 x 10<sup>7</sup> operations).
- For IBM\*PCs and for IBM\*-plug compatible PCs. Serial interface. Transmission without cable. Infrared link.
- Mechanically strong construction.
- PCB supported by rigid coverplate.
- Easily operable with ergonomic "cylindrical style" keylayout.
- 4 mm full travel keyswitches.
- 2-shot molded mat 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 conform to UL 94.

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## Layout



## Codes

Key-No.	Code	Key-No.	Code	Key-No.	Code
1	3B	34	29	67	31
2	3C	35	47	68	32
3	01	36	48	69	33
4	02	37	49	70	34
5	03	38	4A	71	35
6	04	39	3F	72	36
7	05	40	40	73	37
8	06	41	1D	74	4F
9	07	42	1E	75	50
10	08	43	1F	76	51
11	09	44	20	77	1C
12	0A	45	21	78	43
13	0B	46	22	79	44
14	0C	47	23	80	38
15	0D	48	24	81	39
16	0E	49	25	82	3A
17	45	50	26	83	52
18	46	51	27	84	53
19	3D	52	28		
20	3E	53	1C		
21	0F	54	4B		
22	10	55	4C		
23	11	56	4D		
24	12	57	4E		
25	13	58	41		
26	14	59	42		
27	15	60	2B		
28	16	61	2A		
29	17	62	2C		
30	18	63	2D		
31	19	64	2E		
32	1A	65	2F		
33	1B	66	30		

## Important Features

- High quality keymodules with gold-crosspoint Contacts.
- Low profile design (30 mm 3rd keyrow).
- Easily operable with ergonomic cylindrical-style keyboard.
- Keyboard angle to table 8° or 13°.
- Adjustable distance of IR-receiver.
- Colors for IBM®-PCs.
- 10 programmable functionkeys left, numeric block with integrated cursor pad right.
- Synchronous data transmission of IR-receiver.
- International layout (further layouts upon request).
- Codes IBM®-format.
- N-key-rollover.
- Automatic repeat after delay.
- Current consumption – Keyboard 4 x 1,5 V.  
– Receiver + 5 V.
- IBM®-plug compatible.
- Standard keycap color: beige-grey, white-grey.

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## Keyboard

### Mechanical Data

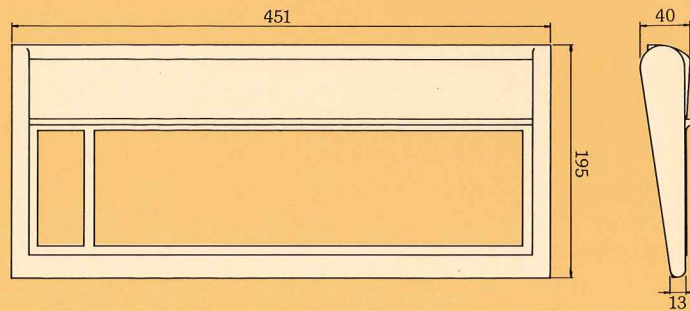
Total travel: \_\_\_\_\_ 4-0,4 mm.  
 Pretravel (at switching point): \_\_\_\_\_ 2 ± 0,6 mm.  
 Operating force: \_\_\_\_\_ 60 + 20 cN.  
 Life time: \_\_\_\_\_ > 2 x 10<sup>7</sup> operations.

### Electrical Data

Power supply: \_\_\_\_\_ 6 V.  
 Current consumption 5 mA typically, otherwise standby mode.  
 Batteries: \_\_\_\_\_ 4 x 1,5 V Alkali or equivalent, type Mignon.  
 Transmission distance: \_\_\_\_\_ max. 6 m nominal line of sight.  
 Transmission angle: \_\_\_\_\_ horizontal: 60° – vertical: 20°.  
 Transmitter frequency: \_\_\_\_\_ 40 kHz/amplitude modulation.  
 Keyboard buffer: \_\_\_\_\_ Intermediate storage of 31 codes possible.  
 Caps-Lock-function: \_\_\_\_\_ Push/Push.  
 Num-Lock-function: \_\_\_\_\_ Push/Push.  
 Automatic repeat: \_\_\_\_\_ Frequency 12 Hz after 1 sec. delay.



### Housing Dimensions



### Part-Number G 80-0517

- Keyboard complete with infrared-link and batteries.
- Infrared receiver with plugable coiled cable for connection to monitor.
- Coiled cable to alternative wire connection from keyboard to receiver.



### Infrared Receiver

#### Mechanical Data

Housing: \_\_\_\_\_ Length 160 mm  
 Width 90 mm  
 Height 20 mm

Keyboard cable: \_\_\_\_\_ Coiled cable, 1,5 m long  
 with diode connector

#### Electrical Data

Power supply: \_\_\_\_\_ +5V ± 5%  
 Current consumption 250 mA.

Distance: \_\_\_\_\_ Changeable for normal  
 and long distance.

Data output: \_\_\_\_\_ IBM\*-format, TTL, synchronous.

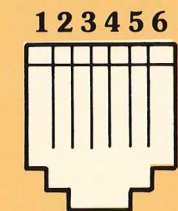
Code: \_\_\_\_\_ IBM\* Up/Down-Codes.

### Coiled Cable for direct Transmission

Data transmission via wire between keyboard and receiver with aftermentioned coiled cable possible.

### Connector Assignment

Connector bush (front view) keyboard-connection.

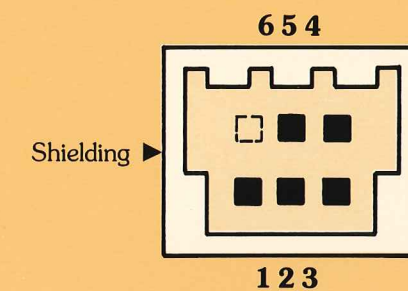


### DIN-Connector Pin Assignment: IBM\*

Pin	Assignment	Pin	Assignment
1	KBCLOCK	4	GND
2	KBDATA	5	+5V
3	-	6	Shielding

Pin	Assignment
1	Chassis Ground
2	KBDATA
3	Cable connection
4	GND
5	Power supply, current consumption 4-5 V
Shielding	

### Connector Bush (Front view) IR Receiver Connection



### Jamming

Keyboard and receiver correspond to VDE 0871, Class B and Vfg. 339/79 (Amtsblatt 54).

Pin	Assignment
1	Chassis Ground
2	Cable Connection
3	GND
4	+5 V, output
5	KBDATA
6	free
Shielding	Chassis ground

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## 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.



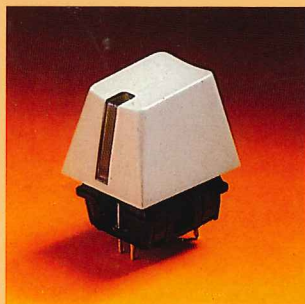
### Thumbwheel switches with assured security and long life.

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.



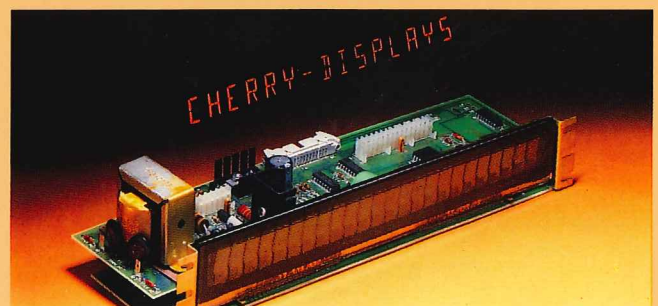
### Snap action switches for the future.

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 alphanumeric 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.