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English

Technical specification

Interface: MSX standard
Sensor: optical rotary encoder
Resolution: 30 pulse/per rotation,
0,26 mm/per pulse
Speed of encoder: 120 r.p.m.
Input/output: TTL level

Supply voltage: 5VDC±5%
Outside dimensions: 97x64x38.5 mm (WxDxH) max.
Weight: approx. 110g (w/o cable/connector)

Cable length: 110 cm.

CONNECTION TABLE



PIN NO.	FUNCTION
1	UP
2	DOWN
3	LEFT
4	RIGHT
5	+5V
6	BUTTON SWITCH LEFT
7	BUTTON SWITCH RIGHT
8	STROBE
9	GROUND

Philips MSX mouse NMS 1140/00

Operation Instructions

The mouse is used in combination with your MSX computer and will be connected to the joystick port, indicated in the user manual of the related application software package.

When sliding this mouse lightly over a flat surface, the cursor on the display moves quickly in accordance with the motion of the mouse.

The mouse can easily be used if a level surface is available where the mouse can be moved about 25 cm/10 inches in all directions. However if the mouse cannot be moved as far as desired due to space limitation, it can be picked up and returned to the appropriate location.

This ergonomical designed mouse with two select switches is easy in operation by manipulating with one hand. The program below enables you to design graphics, which will be displayed on your monitor screen. In this program the mouse will be connected to joystick port 1.

Sample MSX computer program

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10 ON ERROR GOTO 20
20 DEFINT A.Z
30 OPEN "grp:" FOR OUTPUT AS#1
40 SCREEN 2:CLS
50 A$=""
60 FOR I=1 TO 8
70 READ A:A$=A$+CHR$(A)
80 NEXT I
90 SPRITE$(0)=A$
100 IF PAD(12)=0 THEN 100
110 X=X+PAD(13):Y=Y+PAD(14)
120 IF X>256 THEN X=256
30 IF Y-192 THEN Y=192
140 IF X<0 THEN Y=192
140 IF X<0 THEN Y=0
150 IF PY-STRIG(1)=-1 THEN X1=X:Y1=Y:GOTO 100
180 LINE (X1, Y1)-(XY):X1=X:Y1=Y
190 GOTO 100
200 DATA 16,16,16,238,16,16,0
```

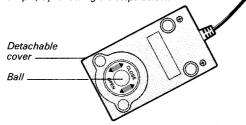
left button press to choose an option, depending on the program



right button press to choose an option, depending on the program

Cleaning the mouse

In order to ensure optimal operation of this mouse, a periodic cleaning is necessary. This operation is very simple, by following the steps below.



- 1. Turn the mouse upside down in your hand with the
- cable pointing towards you.

 2. Place two fingers on the arrow symbols on either side of the roller opening on the bottom of the mouse and shift the cover to "open".
- 3. Hold one hand over the mouse and turn it over so
- the ball drops into your hand.
 4. Use a clean, soft, and dry cloth to wipe the ball clean. Never use a cleaning fluid or lint-erasing
- 6. Replace the ball in its housing, then reinsert the detachable cover and lock it by shifting the cover to "close".

Caution

To avoid careless damage to the mouse please note

- the precautions mentioned below.

 1. The mouse is a very precise mechanical device, so handle with care. Do not drop or hit it.

 2. Don't use the mouse in locations subject to extreme
- temperatures (either high or low), humidity, dust
- and vibration.

 3. Do not carry the mouse by holding the cable

 4. Be sure that you place the mouse on a clean flat
- Do not disconnect the mouse from the computer by simply pulling out the cable. It may cause damage to the cable and the connector.