PRINTER MECHANISM M-190G

Specifications

General Specifications

Print method : Impact dot matrix printer (8 print solenoids

Printing speed :
- **1 line printing**
  2.7 lines/sec±20% (typical)
  5 × 7 font + 3-dot line spacing
  Motor terminal voltage at 4.8 VDC constant, 25×C(77×F), continuous printing
- **1 dot line**
  21.6 dot lines/sec ± 20% (typical)
  Motor terminal voltage at 4.8 VDC constant, 25×C(77×F), continuous printin

Inking : Ribbon cassette (ERC-22 or ERC-09)

Total number of dots : Maximum 144 dots/dot line

Number of columns : Maximum 24 (5 × 7 font and 1 dot column space)

Character size :
- **Dot pitch**
  Horizontal: 0.33 mm; Vertical: 0.37 mm (0.013”; 0.015”)
- **5 × 7 font**
  1.7 mm (W) × 2.6 mm (H); (0.067”×0.102”)

Coping capability : 1 original + 1 copy

Paper feeding pitch :
- **When feeding automatically**
  1-dot line pitch (0.37 mm / 0.015”)
- **During fast feeding**
  3-dot line pitch (1.11 mm / 0.044”)

Fast paper feeding speed : 6.5 lines/sec
Motor terminal voltage at 4.8 VDC constant, 25×C(77×F), continuous printing

Paper :
- **1-ply paper roll**
  Type : Normal paper
  Size : 57.5 ± 0.5 mm (paper width) × 83 mm or less (outside diameter) × 10 mm or more (inside diameter)
  Thickness : 0.06 to 0.085 mm

Weight : 52.3 to 64 g/m2 (13.9 to 17.0 lbs) (45 to 55 Kg (20.41 to 24.94 lbs) / 1000 sheets / 1091×788mm (42.95”×31.02”))

- **2-ply pressure-sensitive paper**

Type : No-carbon paper (Mitsubishi Seishi)

N40 : Upper sheet (Hi) + Lower sheet (Blue color printing)

Size : **Form for cut sheet type**

57.5 ± 0.5 mm (paper width) × 300 mm or less (paper length)

Form for paper roll type

57.5 ± 0.5 mm (paper width) × 83 mm or less (outside diameter), 10 mm or more (inside diameter)

Thickness : Upper sheet : 0.066 mm

Lower sheet : 0.058 mm

Weight : Upper sheet:47.0 g/m2

Lower sheet : 47.0 g/m2

Power Supply Voltage :

- **Printer Driving Voltage**

5.0 +0.8/-0.5 VDC (Ni-Cd battery, nominal voltage 4.8V)

5.0 ±0.5 VDC (when stabilized power supply is used)

Notes:

Can be applied to motor, print solenoid, and fast paper feed trigger solenoid

Use the same power supply.

In all printing pattern used, even during sending of current to print solenoids, the voltage drop by the power supply voltage and from wiring resistance must be 0.8 V or less. Also, voltage loss in the driver circuitry (driver saturation voltage) must be 0.4 V or less.

- **Detector Input Voltage**

5.0 +0.8/-1.7 VDC

Notes:

Can be applied to reset detector, timing detector.

Can be used with the same printer driver power supply.

Reliability :

- **MCBF** : 1,500,000 lines
- **Printer life** : 2,250,000 lines

Environmental conditions for operating :

- **Operating ambient temperature**

a) When using the ERC-22

-10× to 50× (14× to 122×F)

(The assured temperature for printing is 0× to 50×C (32× to 122×F))

b) When using the ERC-09

0× to 50×C (32× to 122×F)

- **Operating ambient humidity**

  10 to 90%RH (non-condensing)

Connection : • **Printer side**

PCB fixed to the frame (with 2.5 mm (0.098”) pitch copper pattern)

- **Circuit side**

  Flat cables or lead wires

Overall dimensions : 91 mm (W) × 46.9 mm (D) ×15.8 mm (H)
3.58” (W) × 1.85” (D) × 0.62” (H)

Weight : Approximately 100 g (approximately 0.23 lb) except ribbon cassette

Factory options : • **Manual feed knob**

Horizontal type

Outside diameter: 20 mm (0.79”)

- **Ribbon cassette**

ERC-22 :

Size : 90.9 mm (W) × 24.9 mm (D) × 6.3 mm (H) (3.58” × 0.98” × 0.25”)

Color : Purple or Black

Life : *Purple* - Approx. 1 million characters
Black - Approx. 600,000 characters

ERC-09 :

Size : 90.9 mm (W) × 26.4 mm (D) × 7.0 mm (H) (3.58” × 1.04” × 0.28”)

Color : Purple or Black

Life : *Purple* - Approx. 250,000 characters
Black - Approx. 200,000 characters

Note : Power supply voltage: 5.0 VDC, 25×C (77×F), continuous printing

MAXIM Miniprinters & More!

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