

# CMA-1101 Series

# CONTROLLER

## Non-contact

Long-term stability

## Digital output

Facilitated in handling

## High accuracy

Realized 10bit in 100mm stroke



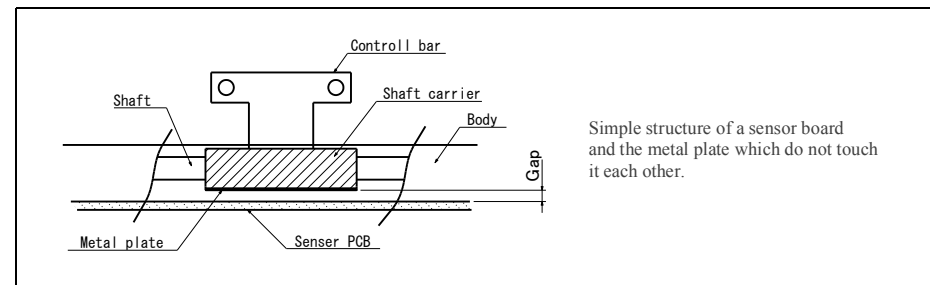
## Model number

**CMA-1101 - M8V**

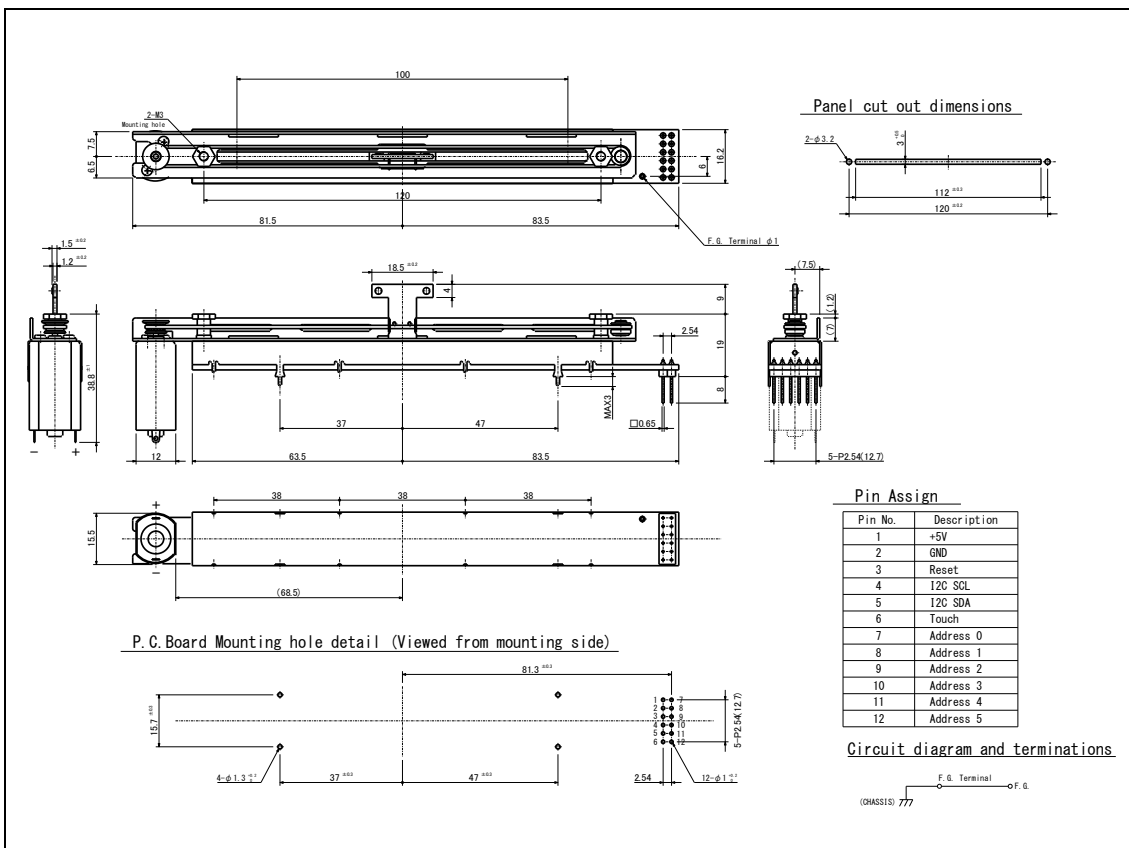
Product type  
CMA-1101: 100mm

DC-motor  
**M8V: 8V DC motor**  
(MABUCHI)

## Structure



## Dimensions



## Electrical specifications

CMA-1101	
Sensor system	Electrostatic capacitance type sensor
Output value	Incremental type
Communication system	I <sup>2</sup> C Slave
Operating voltage	5V: ±0.25V
Max. operating current	4mA Max. (Motor drive electricity is excluded.)
Resolution	10bit (0~1023)
Output Law	1bit = 100mm/1024 (Linear)
Bit error	±3bit
Voltage proof	1 Min. at AC100V
Insulation resistance	50Mohm or more at DC100V

## Mechanical specifications

CMA-1101	
Stroke length	100mm±0.5mm
Operating force	0.1~0.3N
Strength of Nut-Attached	100Ncm
Attached Parts	M3 screw (Length: Panel thickness + 3~4mm)
Stopper strength	30N
Push-pull strength	30N

## General specifications

CMA-1101	
Temp.range	-10 to +70 deg C (Operating), -15 to +75 deg C (Storage)
Relative humidity	90%RH (No condensation)

## Note

- \* Non-waterproof.
- \* Solder heat resistance: 350deg C max, 5sec max, 2 times. (Manual soldering only)
- \* Do not give severe shocks.
- \* Move to one end in Control-bar on the occasion of knob wearing, and can break into it slowly.

