# Specification for Manual Pulse Generator

A. Model

- OVM-01-2DE
  E: Complying with RoHS
  Line Driver Output
  Pulse/Rev.
  01: 100P/Rev
- B. Electrical Specification.
  - 1. Power Source
  - 2. Current Consumption
  - 3. Pulse Per Revolution
  - 4. Output Signal
  - 5. Output Type
  - 6. Output Voltage
  - 7. Maximum Response Frequency
  - 8. Response speed of output voltage (Rise and Fall Time)
  - 9. Maximum Sink Current
  - 10. Insulation Resistance

DC +5V ± 5%

150mA or less (no Load)

100P/Rev

Phase A and Phase B. Two signals with the phase

difference of  $90^{\circ}$  .

Line Driver (Equivalent to AM26LS31)

[H] Level is 2.5V lower than Power Voltage

[L] Level is 0.5V or less (at maximum sink current)

5kHz

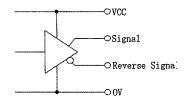
200ns or less (at 20mA)

20mA or less (at "L" Level)

 $50 \text{M}\,\Omega$  or more (Between ground line and case with

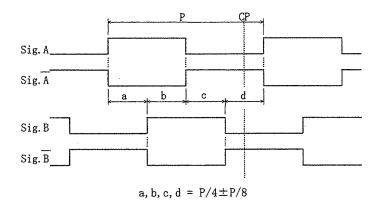
DC500V mega ohm meter)

11. Output Circuit



12. Output Signal Form

CW rotation → clockwise rotation looked from front side (CP : click points)



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C. Mechanical Specification.

1. Starting Torque

 $1.96 \times 10^{-2}$  to  $5.88 \times 10^{-2}$  N·m (at 20°C)

2. Maximum Load to Shaft

Thrust: 9.8N

Radial: 19.6N

3. Bearing Life

Not less than 1 million rotations (at 200 r/min.)

4. Maximum Rotation Speed

Peak 600 r/min. normally not more than 200 r/min.

5. Mass

400g or less

6. Indication and Click Points

Difference between indication and engraved line on

a wheel is within 1/4 of the pitch of wheel

engraving at each click point

7. Structure

The structure is vibration resistant and protected

from the instrusion of dust and oil from the front panel.

D. Environmental Specification.

1. Operating Temperature

-10°C to +60°C

2. Storage Temperature

-30°C to +80°C

3. Humidity

85% RH or less (no condensation)

4. Vibration

10 to 55Hz. Amplitude : 1.5mm p-p

(X, Y, and Z direction, each for 2 hours)

5. Shock

 $490 \text{ m/s}^2$ , 11ms

(X, Y, and Z direction, each for 3 times)

E. Outline

1. Outline Drawing

Refer to R-G41515-15



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Environmental specifications A RoHS Compliance

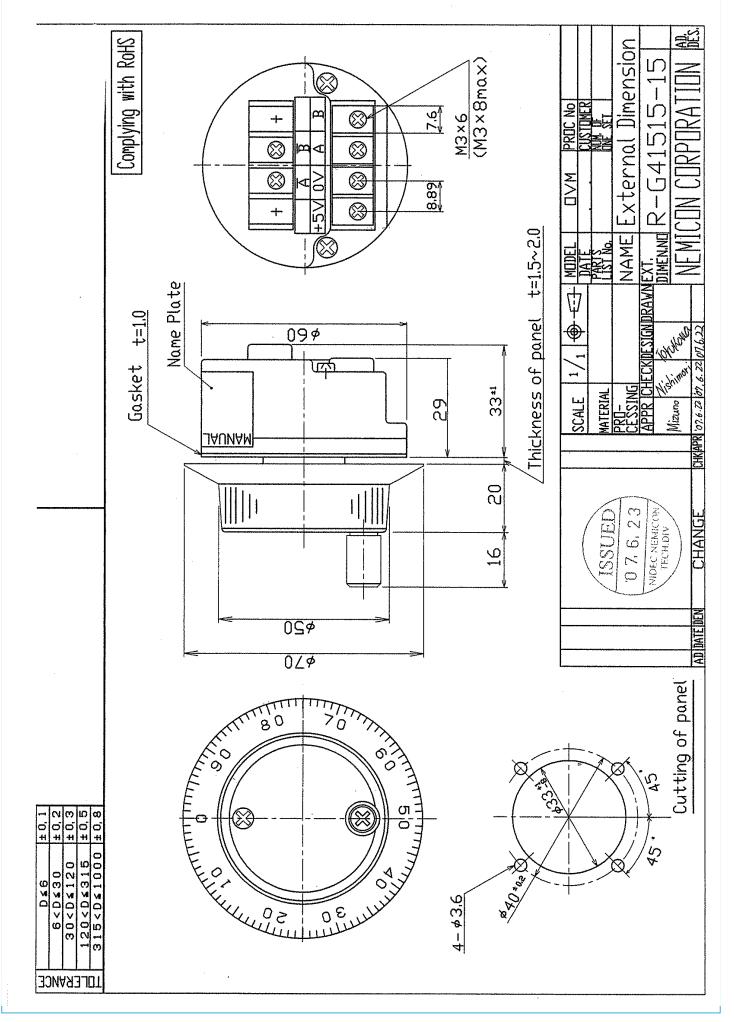
Corresponding to RoHS.

 $Pb,Hg,Cd,Hexavalent\ chromium,PBB,PBDE\ are$ 

below a fiducial point.



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# Caution

- Due to precision parts inside, please handle with care. Strong shock may destroy its function.
- Invasion of foreign object like oil may interfere output signals. Please take care the working environment.
- Please concentrate Shaft and coupling accurately. Otherwise performances are not guaranteed.
- Please do not over load to Shaft, and do not hammer or force to install it. It may be disordered.
- · Do not disassemble it. It may be disordered.
- · Vibration to Encoder may cause disorder. Please take care the mounting place.
- · Please do not over charged. It may be disordered.
- Please do not have miswiring. It may be disordered.
- · Wiring shall be while not charged. It may be disordered.
- Please provide surcharge voltage absorber, when it is generated. Otherwise it may be disordered.
- Sparks form switches or relays in circuits shall be eliminated absorber. Otherwise it may be disordered.
- Please do not layout signal output along with other power lines. It may be disordered.
- Please keep away from welding machine or electric fireplace, or necessary electro-magnetic shield.
- When with extension cable, please use Shield Cable. Otherwise it may be disordered.
- While 0.1 secafter power on, and 0.5 secafter power off. Its signals shall not be used.
- No guarantee in other use than its specification.
- · When you find problem on the product. Please let us know immediately.



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