

1. Cautions regarding handling

- The encoder comprises precision parts and should be handled carefully. If the shaft or body are struck, dropped, or otherwise subjected to shock, function may be impaired.
- When installing the encoder, minimize the eccentricity and declination and use flexible couplings to reduce the load on the shaft. If the load is increased, it will reduce the life of the bearings.

2. Use environment

- The encoders do not have drip-proof construction. Prevent exposure to oil, water and other liquids. (RESW20D & RECW20D are with panel seal.)

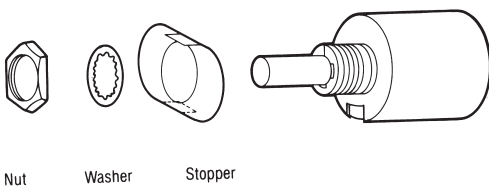
3. Wiring

- Error in wiring or power supply voltage can damage in internal circuitry. Take sufficient care during wiring.
- To prevent induction noise, make cable wire lengths as short as possible. Do not run wires parallel to high voltage or other power wires.

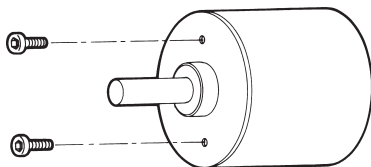
4. Installation

<Bushing mount type>

(Manual setting encoders REC16, RES16, RES20, RES20-Z, REC20, RES20B, REC20C, RES20D, REC20D, RESW20D, RECW20D)



<Screw mount type>



5. Soldering conditions:

(Manual setting encoders

RES16A, REC16B, REC16M, REC16K)

- Manual soldering
 - Use solder gun under 20W, Soldering shall be done at 350 °C (lead-free for 3seconds [max.].)
- Dip soldering
 - The PCB thickness is 1.6mm above with one side copper lamination or two sides copper lamination.
 - For Flux, It is applied on half of PCB with specific gravity (0.83-0.85) with bubble.
 - For pre-heat, the surface temperature is under 100°C within 1 minute.
 - The soldering temperature is under 260°C. The process is within 5 seconds one time only.
- Reflow Soldering
 - It will destroy the function. Please do not proceed.