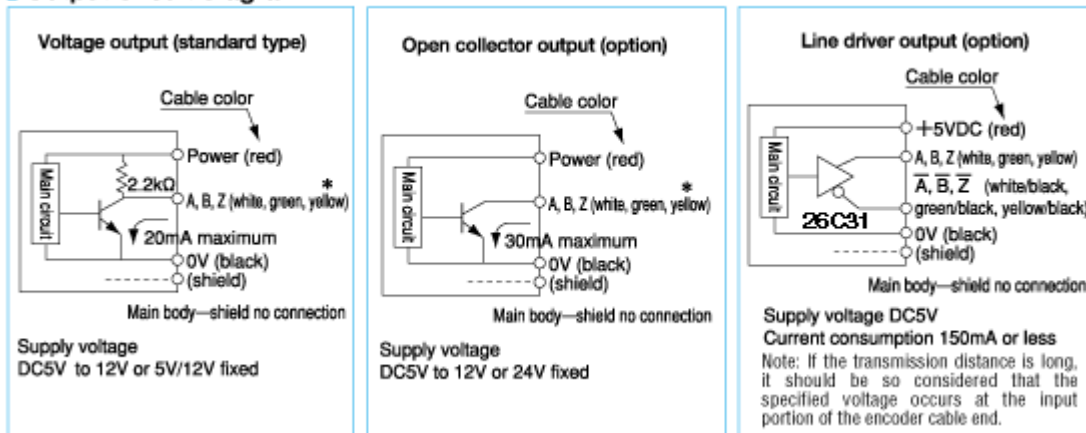


ME series [Square Wave/Incremental]

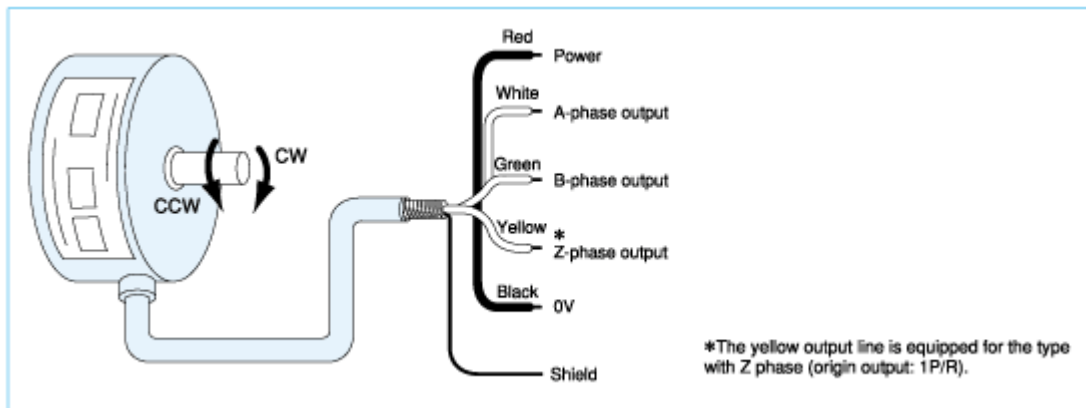
[The attachment method of an encoder]

- Widely available from low pulse to high resolution pulse. A desired division pulse number is easily available because of internal manufacturing.
- Outside diameters are available in series from ultra-small type to large type and selection should be made in accordance with the fitting shaft and division pulse number.
- All products are of thin type, and especially the hole type is an encoder best suited for fitting.
- Investigation is possible under optimum conditions such as noise resistance and reduction in current consumption depending on the purpose of use.

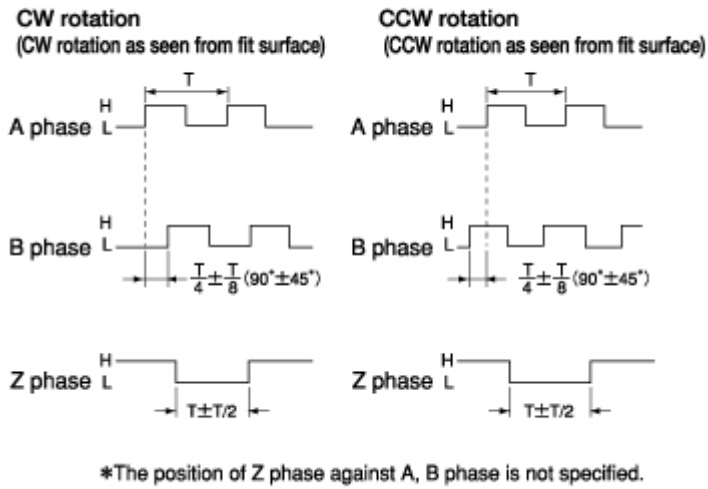
Output circuit diagram



A capacitor (0.1μF) is connected between 0V and FG (frame ground).



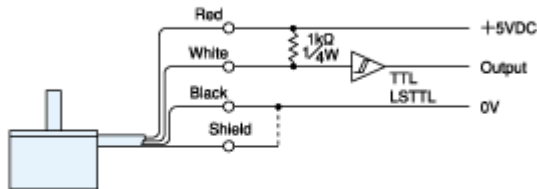
Output waveform



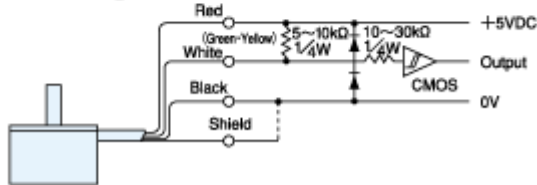
Connecting example

Connecting with IC circuit
(the cable length should be as short as possible)

① Connecting to TTL/LSTTL

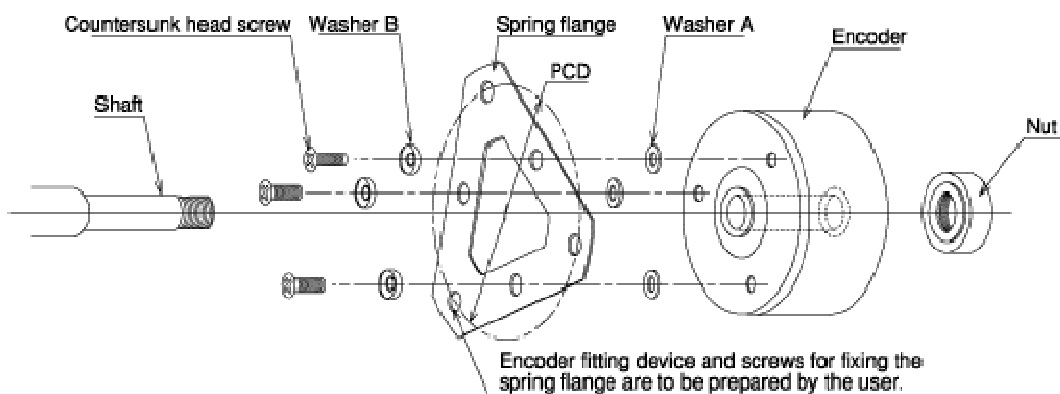


② Connecting to CMOS



Spring flange MEH-20, 30, 50, 60, 85, 130 (material: SUS304-CSPH)

Hole type encoder (MEH) fitting image



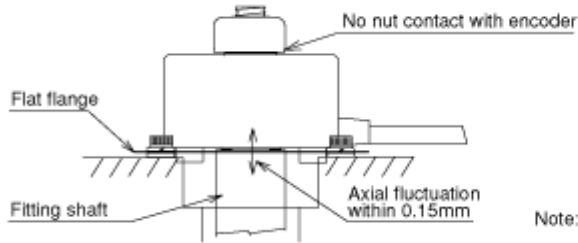
For the spring

flange, see [Setting Option](#)

Precautions in assembling the hole-type encoder

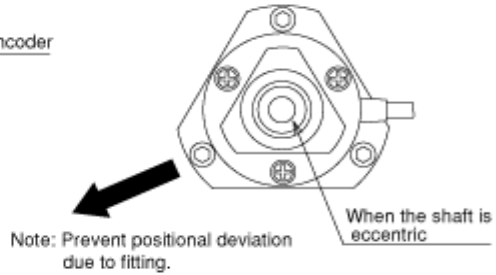
Effect on encoder of thrust load

Absorption of axial fluctuation of flat flange is within 0.15mm

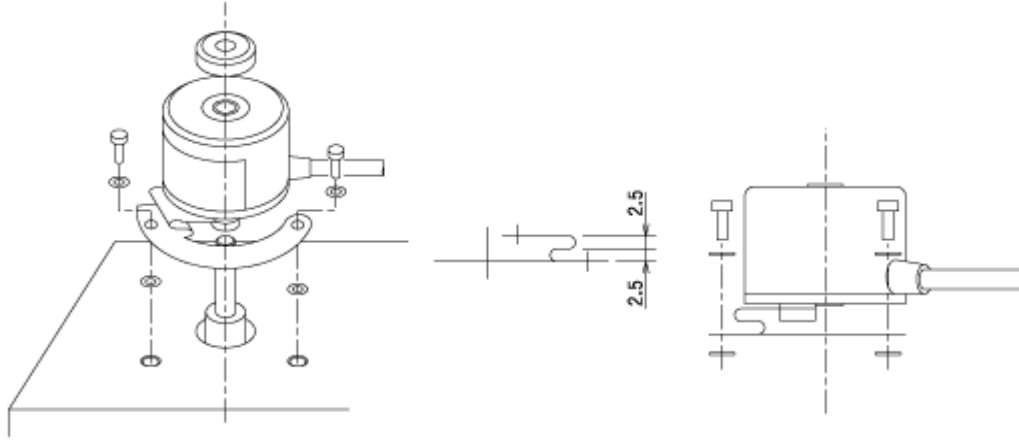


Effect on encoder of radial load

Basically it is difficult to absorb the radial load because of the flat plate. Radial eccentricity should be less than 20 micron.



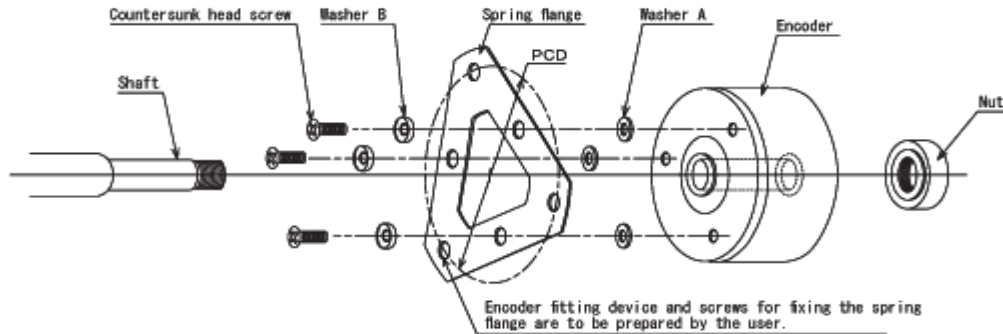
When radial fluctuation is large, consider the method shown below.



Fitting Method for Hole Type Encoder (MEH/MAH)

Spring flange MEH-20, 30, 50, 60, 85, 130 (material: SUS304-CSPM)

Hole type encoder (MEH) fitting image

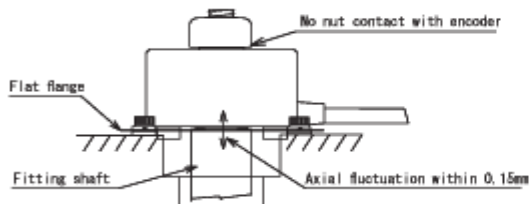


For the spring flange, see Setting Option (P49).

Precautions in assembling the hole-type encoder

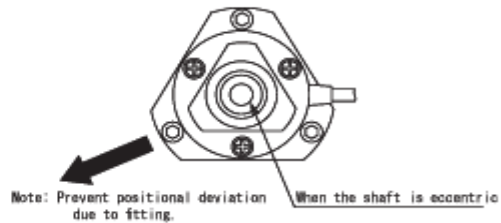
Effect on encoder of thrust load

Absorption of axial fluctuation of flat flange is within 0.15mm



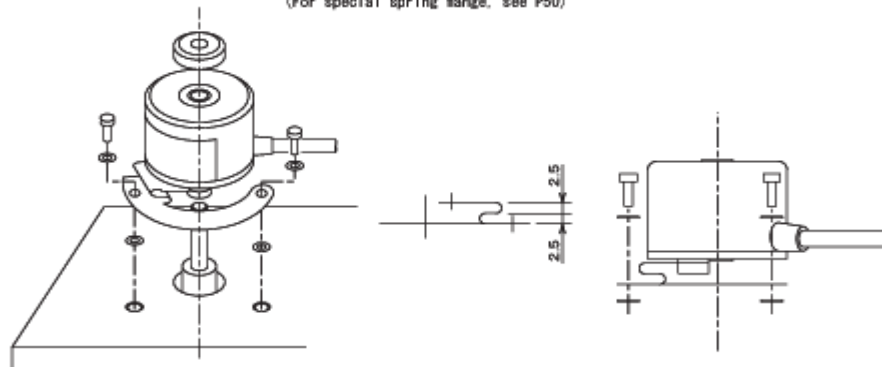
Effect on encoder of radial load

Basically it is difficult to absorb the radial load because of the flat plate. Radial eccentricity should be less than 20 micron.



When radial fluctuation is large, consider the method shown below

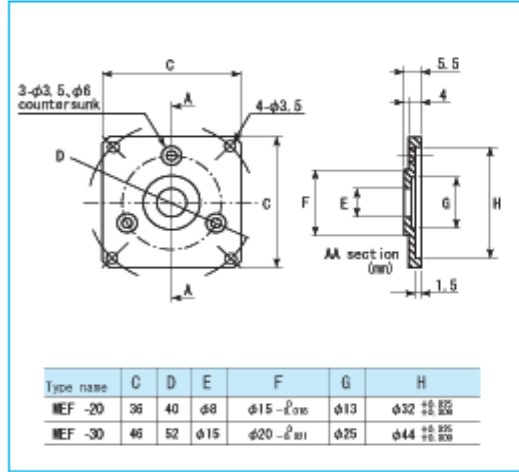
(For special spring flange, see P50)



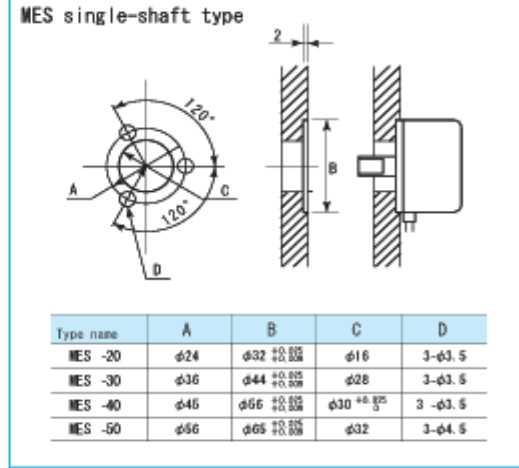
Fitting Method for Shaft Type Encoder (MES/MAS)

(Use this method when the base of the main unit of MES-20 or MES-30 with a single-shaft cannot be installed from the shaft side.)

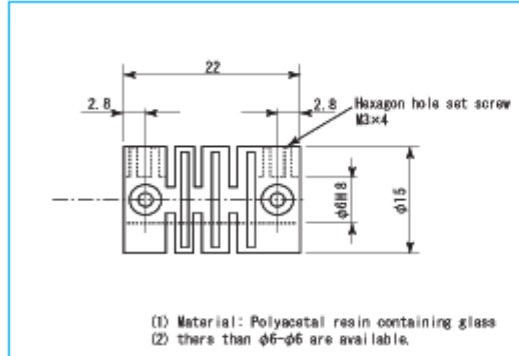
Flange MEF-20 (for MES-20), MEF-30 (for MES-30)



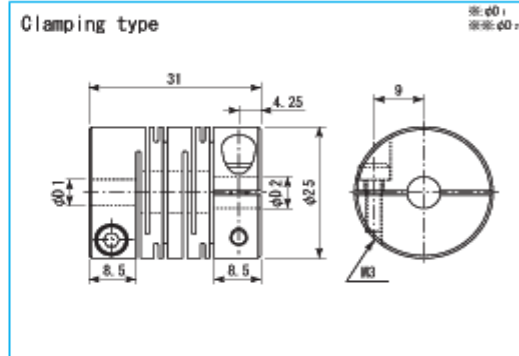
Fitting dimensions



Coupling GJ6x6 (for MES-20, 30)



Coupling MST-25C-6x6 (for MES-30 high resolution), 8x8 (for MES0 high resolution)



Eccentric spring characteristics

