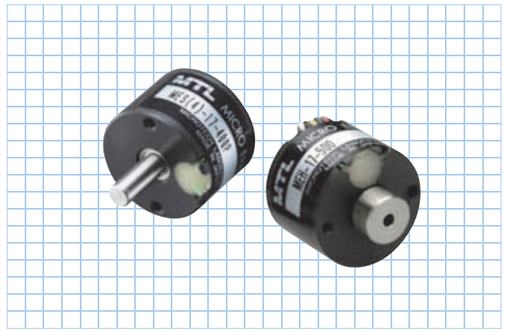
# ME-I7-P series

[Square Wave/Incremental]



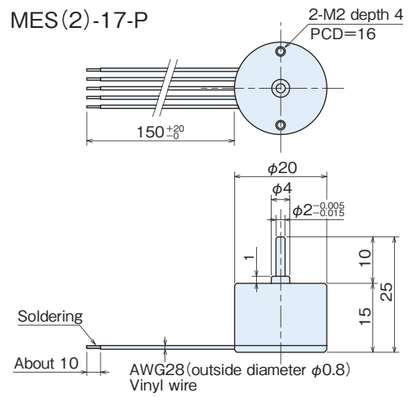
## Specifications

| Item | | Type name: ME□-17-□P□ (Shaft shape: ●S(2)=φ2 single shaft ●S(4)=φ4 single shaft ●H=hollow shaft; Pulse number; Output circuit: ●Noentry=Voltage putput ●C=open collector output) |
|---|---|---|
| Supply voltage | | DC5V ±10% |
| Current consumption | | 30mA or less(under no load) |
| Detection system | | Incremental |
| Output | Output pulse number (Standard) (Pulse number/rotation) | 100 300 500<br>200 360<br>256 400 |
| Output | Output phase | A, B, Z phase(Z="H") |
| Output | Output form | Square wave, voltage output only<br>Pull-up resistance 10kΩ |
| Output | Output capacity | Sink current:20mA<br>Residual voltage:0.4V or less(at 10mA) |
| Output | Maximum response frequency (response pulse number) | 50kHz |
| Output | Output phase difference | A, B phase difference 90°±45°(T/4±T/8)<br>Z phase T±T/2(see Output Waveform) |
| Output | Waveform rise/fall time | 2μs or less |
| Allowable load of shaft(electrical) | Radial | 1.9N(200gf) |
| Allowable load of shaft(electrical) | Thrust | 1.9N(200gf) |
| Maximum allowable revolutions (mechanical) | | 6,000r/min |
| Working ambient temperature/ humidity | | 0℃~50℃<br>RH35%~90% no dewing |
| Storing ambient temperature | | −20°C~80°C |
| Vibration resistance | | Durability 55Hz, double amplitude 1.5mm<br>2 hours each in X, Y, and Z directions |
| Impact resistance | | Durability 500m/s²(about 50G)<br>3 times each in X, Y, and Z directions |
| Cable | | Vinyl wire AWG28 150mm |
| Mass | | 20g |

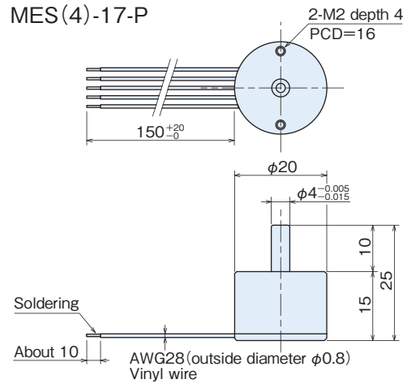


## Outside dimensions

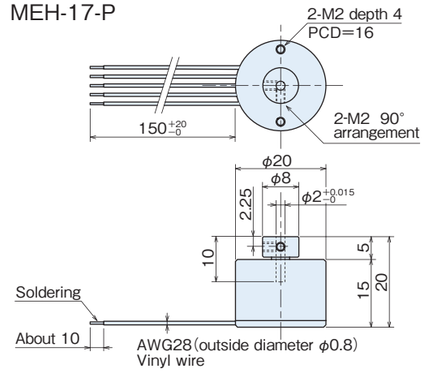
MES(2)-17-P



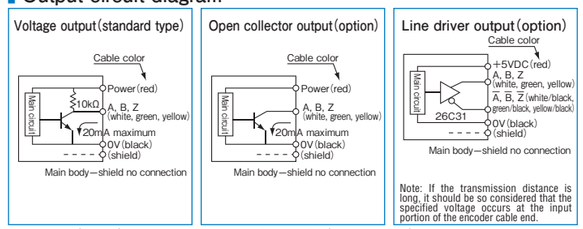

MES(4)-17-P




MEH-17-P

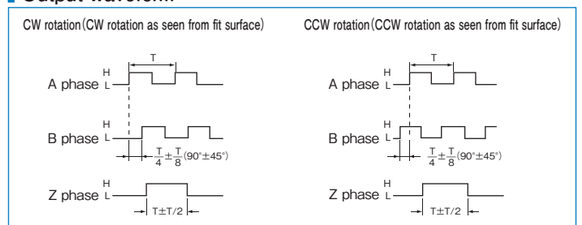



## Output circuit diagram




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

## Output waveform




*The position of Z phase against A, B phase is not specified.

## Spring flange MEH-17(Option)