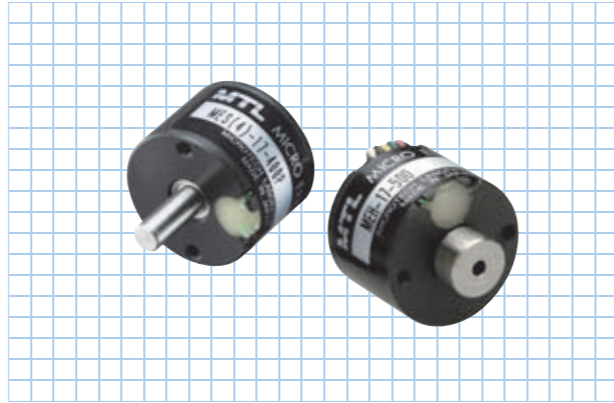


# ME-17-P series

[Square Wave/Incremental]

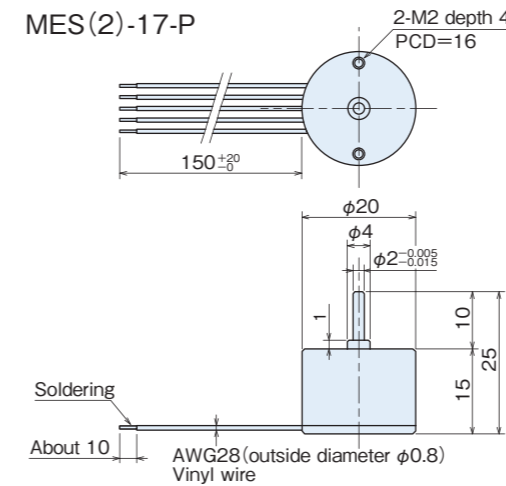


## Specifications

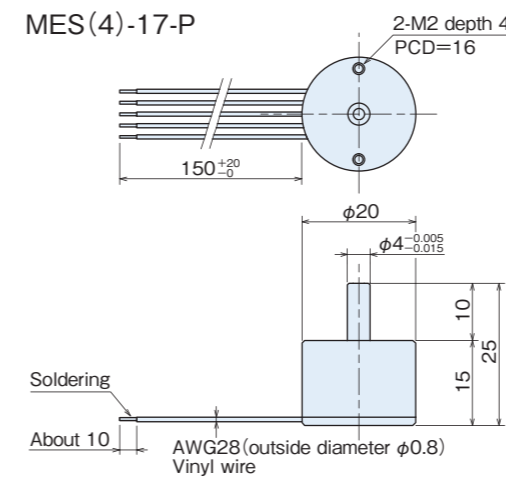
Type name		ME <input type="checkbox"/> -17- <input type="checkbox"/> P <input type="checkbox"/>		
Item	Shaft shape	Pulse number	Output circuit	
	<ul style="list-style-type: none"> <li>●S(2)=φ2 single shaft</li> <li>●S(4)=φ4 single shaft</li> <li>●H=hollow shaft</li> </ul>	<ul style="list-style-type: none"> <li>●Noentry=Voltage output</li> <li>●C=open collector output</li> </ul>		
Supply voltage	DC5V ±10%			
Current consumption	30mA or less (under no load)			
Detection system	Incremental			
Output pulse number (Standard)	100	300	500	
	200	360		
[Pulse number/rotation]	256	400		
Output phase	A, B, Z phase (Z="H")			
Output form	Square wave, voltage output only Pull-up resistance 10kΩ			
Output capacity	Sink current: 20mA Residual voltage: 0.4V or less (at 10mA)			
Maximum response frequency (response pulse number)	50kHz			
Output phase difference	A, B phase difference 90°±45° (T/4±T/8) Z phase T±T/2 (see Output Waveform)			
Waveform rise/fall time	2μs or less			
Allowable load of shaft (electrical)	Radial	1.9N (200gf)		
	Thrust	1.9N (200gf)		
Maximum allowable revolutions (mechanical)	6,000r/min			
Working ambient temperature/humidity	0°C~50°C RH35%~90% no dewing			
Storing ambient temperature	-20°C~80°C			
Vibration resistance	Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions			
Impact resistance	Durability 500m/s <sup>2</sup> (about 50G) 3 times each in X, Y, and Z directions			
Cable	Vinyl wire AWG28 150mm			
Mass	20g			

## Outside dimensions

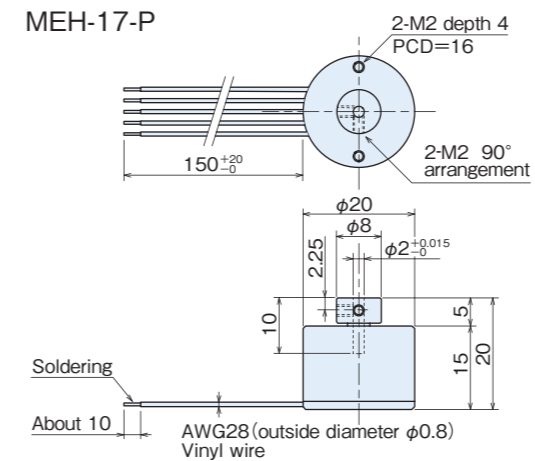
MES(2)-17-P



MES(4)-17-P

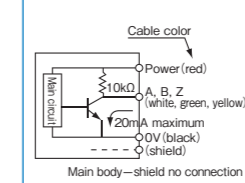


MEH-17-P

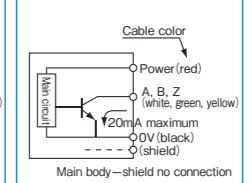


## Output circuit diagram

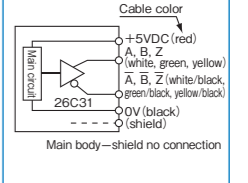
Voltage output (standard type)



Open collector output (option)



Line driver output (option)

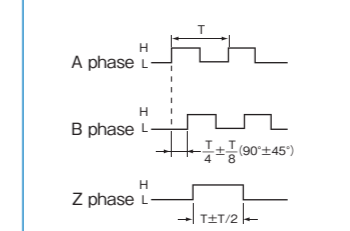


Note: If the transmission distance is long, it should be so considered that the specified voltage occurs at the input portion of the encoder cable end.

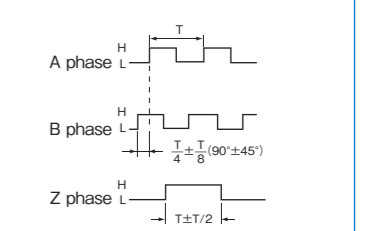
A capacitor (0.1μF) is connected between 0V and FG (frame ground).

## Output waveform

CW rotation (CW rotation as seen from fit surface)



CCW rotation (CCW rotation as seen from fit surface)



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

## Spring flange MEH-17 (Option)

