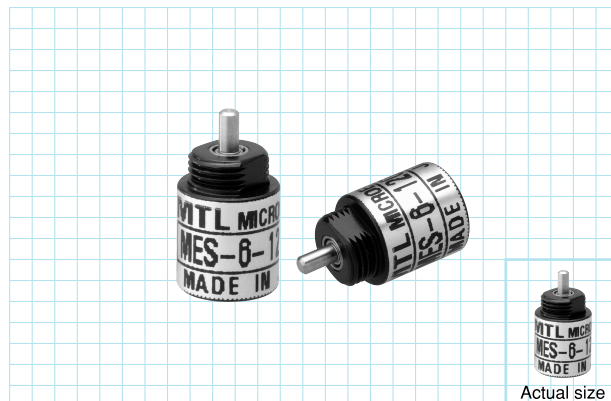


MES-6-P series

[Square Wave/Incremental]

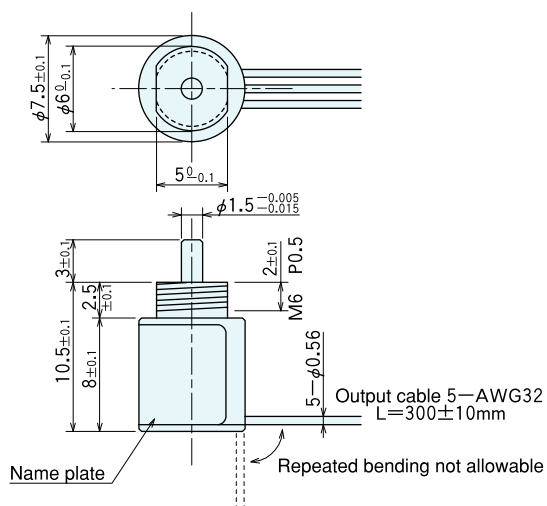


19th Kanagawa High-tech Grand-prix
Product that won the grand prize

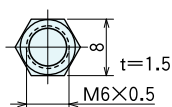


Actual size

Outside dimensions

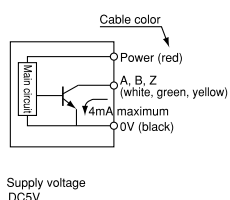


Accessory (lock nut)



Output circuit diagram

Open collector output



Specifications

Type name		MES-6-□ PC
Item		Pulse number
Supply voltage		DC5V ±10%
Current consumption		30mA or less (under no load)
Detection system		Incremental
Output	Output pulse number (Standard)	100 120 200 300 360
	[Pulse number/rotation]	
	Output phase	A, B, Z phase
	Output form	Square wave, open collector output
	Output capacity	Sink current: 4mA (output voltage resistance 7V) Residual voltage: 0.4V or less
	Maximum response frequency (response pulse number)	100kHz
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 (output cable 300mm or less)
Starting torque		0.3×10 ⁻³ N·m (3gf·cm) or less
Allowable load of shaft (electrical)	Radial	1.9N (200gf)
	Thrust	0.98N (100gf)
Maximum allowable revolutions (mechanical)		6000r/min
Working ambient temperature/humidity		0°C~60°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 ² (about 50G) 3 times each in X, Y, and Z directions
Cable		Vinyl wire (AWG32) Cable length 300mm
Mass		5g

Output waveform

