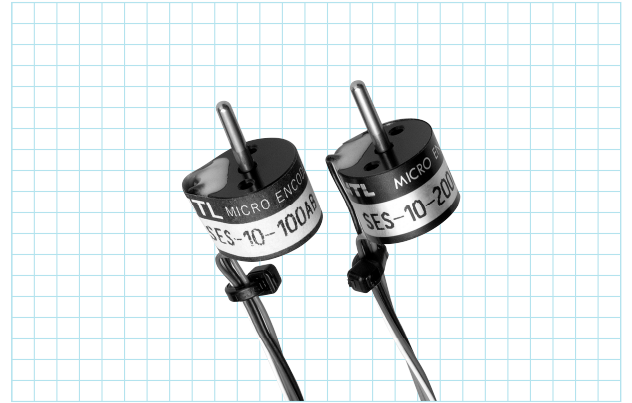
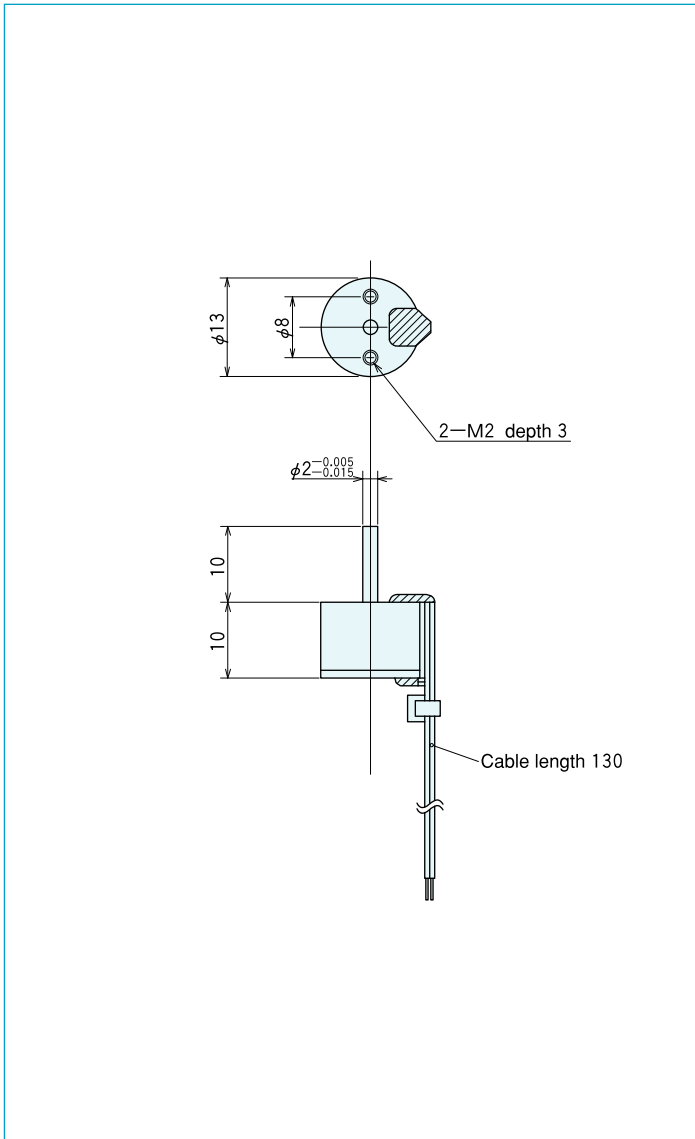


SES-10 series

[Approximate Sine Wave/Incremental]



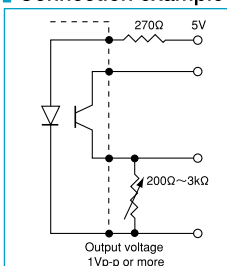
Outside dimensions



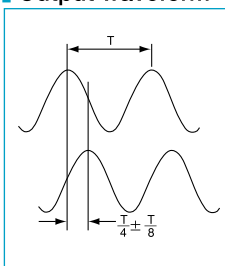
Specifications

Type name		SES-10- <input type="text"/> - <input type="text"/>
		Pulse number Output phase ●A =single phase ●AB=two-phase
Item		
Supply voltage	DC5V $\pm 10\%$	
Current consumption	30mA (LED: maximum 20mA)	
Detection system	Incremental	
indinO	Output pulse number (Standard)	100
	[Pulse number/rotation]	200
	Output phase	A phase, A, B phase
	Output form	Approximate sine wave
	Output capacity	—
	Maximum response frequency (response pulse number)	20kHz
Output phase difference	A, B phase difference $90^\circ \pm 45^\circ$	
Waveform rise/fall time	—	
Starting torque	$0.3 \times 10^{-3} \text{N} \cdot \text{m}$ (3gf·cm) or less	
Allowable load of shaft (electrical)	Radial	1.9N (200gf)
	Thrust	1.9N (200gf)
Maximum allowable revolutions (mechanical)	6000r/min	
Working ambient temperature/humidity	$0^\circ\text{C} \sim 50^\circ\text{C}$	
Storing ambient temperature	$-20^\circ\text{C} \sim 80^\circ\text{C}$	
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 (AWG30) 130mm	
Mass	10g	

Connection example



Output waveform



Output circuit diagram

