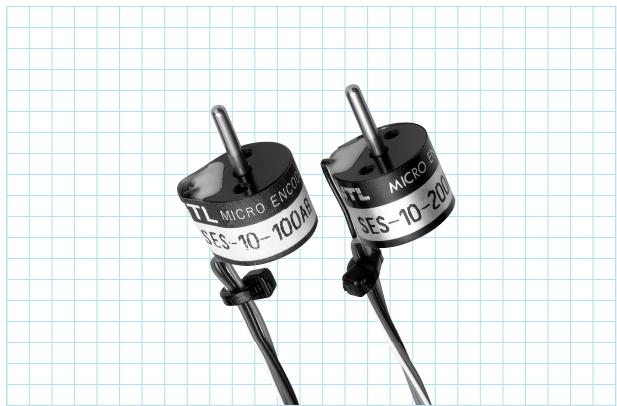
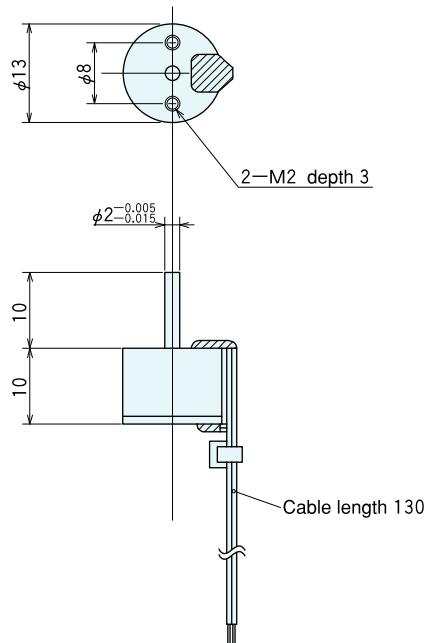


SES-10 series

[Approximate Sine Wave/Incremental]



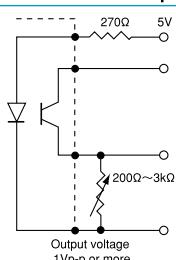
Outside dimensions



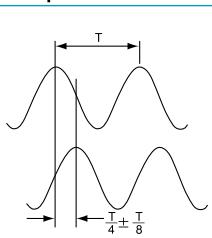
Specifications

Type name	SES-10-[] []														
Item	Pulse number Output phase ●A =single phase ●AB=two-phase														
Supply voltage	DC5V ±10%														
Current consumption	30mA (LED: maximum 20mA)														
Detection system	Incremental														
Output	<table border="1"> <tbody> <tr> <td>Output pulse number (Standard) (Pulse number/rotation)</td><td>100 200</td></tr> <tr> <td>Output phase</td><td>A phase, A, B phase</td></tr> <tr> <td>Output form</td><td>Approximate sine wave</td></tr> <tr> <td>Output capacity</td><td>—</td></tr> <tr> <td>Maximum response frequency (response pulse number)</td><td>20kHz</td></tr> <tr> <td>Output phase difference</td><td>A, B phase difference $90^\circ \pm 45^\circ$</td></tr> <tr> <td>Waveform rise/fall time</td><td>—</td></tr> </tbody> </table>	Output pulse number (Standard) (Pulse number/rotation)	100 200	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	—
Output pulse number (Standard) (Pulse number/rotation)	100 200														
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	$0.3 \times 10^{-3} N \cdot m$ (3gf·cm) or less														
Allowable load of shaft (electrical)	<table border="1"> <tbody> <tr> <td>Radial</td><td>1.9N (200gf)</td></tr> <tr> <td>Thrust</td><td>1.9N (200gf)</td></tr> </tbody> </table>	Radial	1.9N (200gf)	Thrust	1.9N (200gf)										
Radial	1.9N (200gf)														
Thrust	1.9N (200gf)														
Maximum allowable revolutions (mechanical)	6000r/min														
Working ambient temperature/humidity	$0^\circ C \sim 50^\circ C$														
Storing ambient temperature	$-20^\circ C \sim 80^\circ C$														
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

