



**PART NUMBER:** EC202E020B

**DESCRIPTION:** optical encoder

### ELECTRICAL SPECIFICATIONS

output waveform	Square wave
output signals	A, B phase
current consumption	26 mA nominal, 30 mA max.
output voltage	“H” “L”
	4.2 V min. 0.4 V max.
supply voltage	5 V dc $\pm$ 5%
output resolution (ppr)	20
pulse difference	90° $\pm$ 45°
frequency response	500 Hz max.

### MECHANICAL SPECIFICATIONS

max shaft load, radial:	1.0 kgf
axial:	1.0 kgf
starting torque	50 gf·cm max.
maximum speed	210 rpm
rotational life	2,000,000 cycles

### ENVIRONMENTAL SPECIFICATIONS

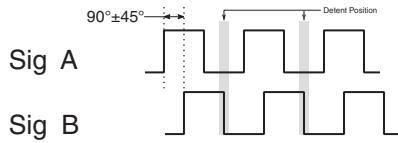
operating temp	0° to +60° C
storage temp	-20° to +80° C
humidity	85% RH, no condensation
vibration	10 ~ 55 Hz. 1.5mm, 6 hours
shock	490 m/s <sup>2</sup> (50 G), 6 ms, 3 axes, 3 reps

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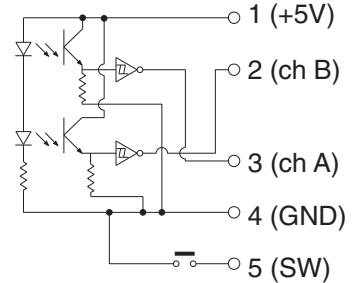
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**OUTPUT WAVEFORM**

Counter clockwise rotation viewed from front



**OUTPUT CIRCUIT**



**MECHANICAL DRAWING**

