

**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

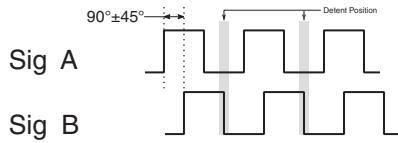
| | |
|----------------|---|
| operating temp | 0° to +60° C |
| storage temp | -20° to +80° C |
| humidity | 85% RH, no condensation |
| vibration | 10 ~ 55 Hz. 1.5mm, 6 hours |
| shock | 490 m/s ² (50 G), 6 ms, 3 axes, 3 reps |

PART NUMBER: EC202E020B

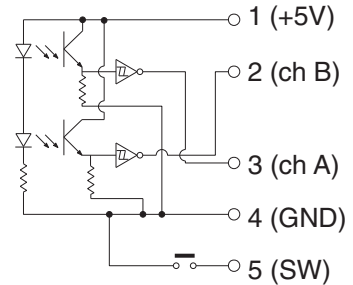
DESCRIPTION: optical encoder

OUTPUT WAVEFORM

Counter clockwise rotation viewed from front



OUTPUT CIRCUIT



MECHANICAL DRAWING

