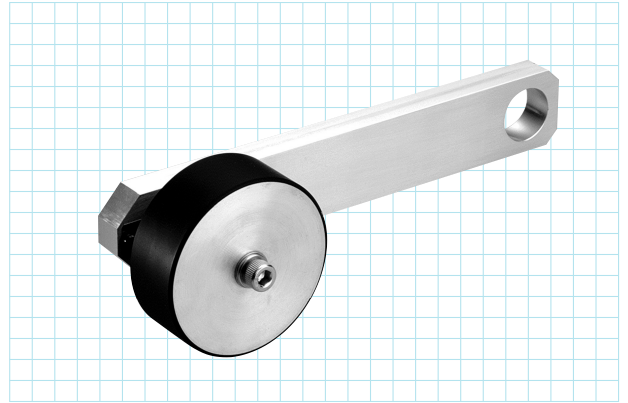
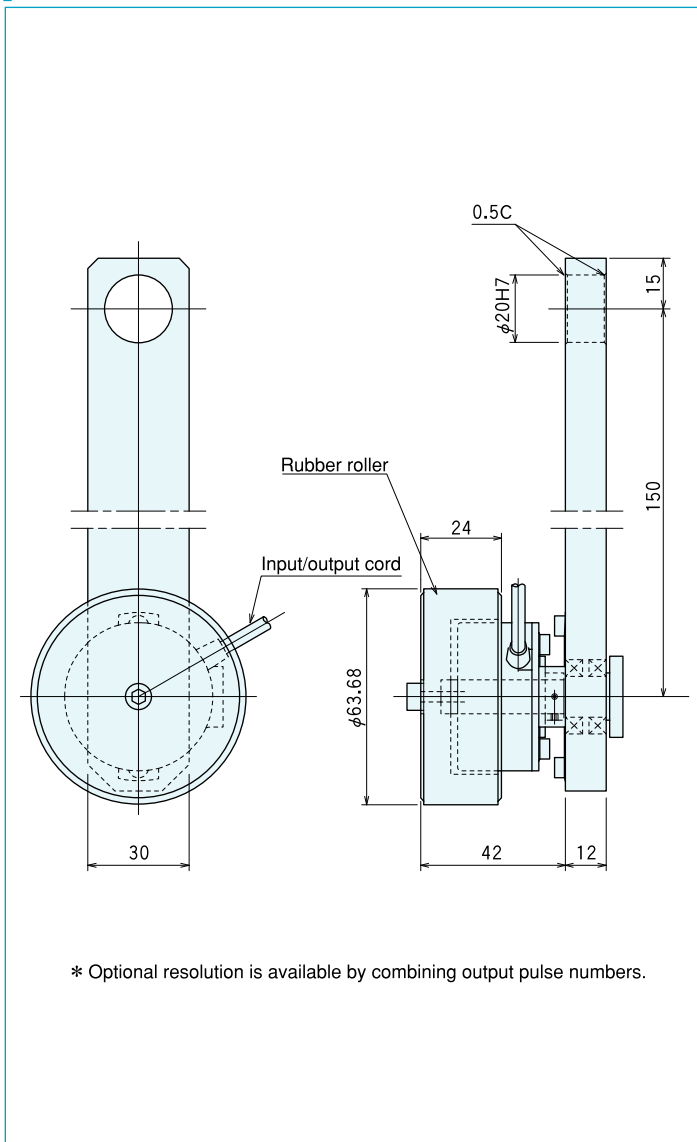


REH-30R series

[Roller Encoder]



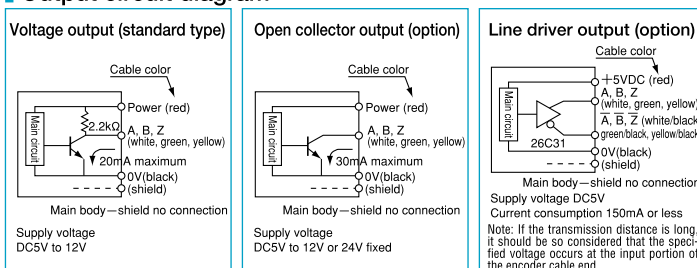
Outside dimensions



Specifications

| | | | | | | |
|--|---|--|-----|----------------|------|------|
| Type name | REH-30- <input type="checkbox"/> R <input type="checkbox"/> | | | | | |
| Item | Pulse number | Output circuit ● No entry=voltage output ● C=open collector output ● C4=open collector output DC24V ● E=line driver output | | | | |
| Supply voltage | DC5~12V $\pm 10\%$ DC24V $\pm 10\%$ (open collector output only) | | | | | |
| Current consumption | 60mA or less (under no load) | | | | | |
| Detection system | Incremental | | | | | |
| Output | Output pulse number | 200 | 400 | 500 | 1000 | 2000 |
| | Output pulse/1mm | 1 | 2 | 2.5 | 5 | 10 |
| | Minimum resolution mm | 1 | 0.5 | 0.4 | 0.2 | 0.1 |
| | Output phase | A, B, Z phase | | | | |
| | Output form | Square wave | | | | |
| | Output capacity | Sink current: 20mA Residual voltage: 0.5V or less (at 10mA) | | | | |
| | Maximum response frequency (response pulse number) | 100kHz | | | | |
| | Output phase difference | A, B phase difference $90^\circ \pm 45^\circ$ ($T/4 \pm T/8$) Z phase $T \pm T/2$ (see Output Waveform) | | | | |
| | Waveform rise/fall time | $2\mu s$ or less (output cable 1m or less) | | | | |
| | Starting torque | $5 \times 10^{-3} N \cdot m$ (200gf·cm) or less | | | | |
| Allowable load of shaft (electrical) | Radial | 19.6N (2kgf) | | 14.7N (1.5kgf) | | |
| | Thrust | 9.8N (1kgf) | | 4.9N (0.5kgf) | | |
| Maximum allowable revolutions (mechanical) | 6000r/min | | | | | |
| Roller | Outside diameter: $\phi 63.68 \pm 0.01$ Material: aluminum roll hard urethane rubber baked | | | | | |
| Working ambient temperature/humidity | $0^\circ C \sim 60^\circ C$ RH35%~90% no dewing | | | | | |
| 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 | Outside diameter $\phi 4.2$ 5-core vinyl wire Insulated shield cable (length 1m) | | | | | |
| Mass | 400g | | | | | |

Output circuit diagram



A capacitor (0.1 μF) is connected between 0V and FG (frame ground).

Output waveform

