

**PART NUMBER:** REH30R**DESCRIPTION:** incremental encoder**ELECTRICAL SPECIFICATIONS**

current consumption	60 mA max. (under no load)
sink current	20 mA max. (residual voltage: < 0.5 V at 10 mA)
frequency response	100 KHz
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)
supply voltage	5 ~ 12 V dc $\pm 10\%$, 24 V dc $\pm 10\%$ (open collector output only)
output resolution (ppr)	200, 400, 500, 1000, 2000
waveform rise/fall time	2 μ S max. (output cable 1m or less)

MECHANICAL SPECIFICATIONS

max shaft load, radial:	19.6N (2kgf)
axial:	9.8N (1kgf)
starting torque	5×10^{-3} N·m (200 gf·cm) or less
max rotational speed	6000 RPM
shock resistance	500 m/s ² (50G), 3 times each on XYZ
vibration proof	55 Hz, double amplitude 1.5mm, 2 hours each on XYZ
weight	400g (with 1m cable)
cable	\varnothing 4.2mm outside diameter, 5 core vinyl wire insulated shield cable (1m)

ENVIRONMENTAL SPECIFICATIONS

operating temp	0° to +60° C
storage temp	-20° to +80° C
humidity	RH 35%~90% non collecting

ORDERING INSTRUCTIONS**REH30 - XXXXR-XX**

Resolution (PPR):
 200 = 200 PPR
 400 = 400 PPR
 500 = 500 PPR
 1000 = 1000 PPR
 2000 = 2000 PPR

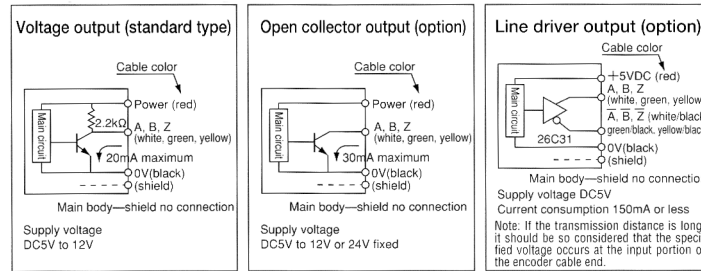
Output Circuit:
 "no entry" = TTL voltage output
 C = Open collector output
 E = Line driver output

Input Voltage:
 1 = 5 V dc $\pm 10\%$
 (line driver output only)
 3 = 5 ~ 12V dc $\pm 10\%$
 4 = 24V dc $\pm 10\%$
 (open collector output only)

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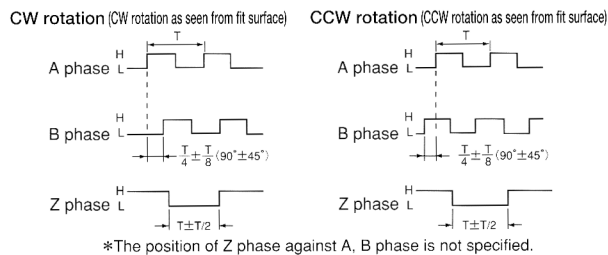
DESCRIPTION: incremental encoder

CIRCUIT CONNECTIONS

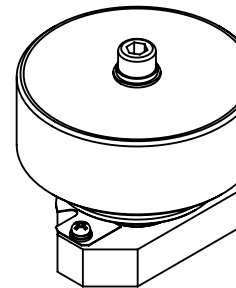
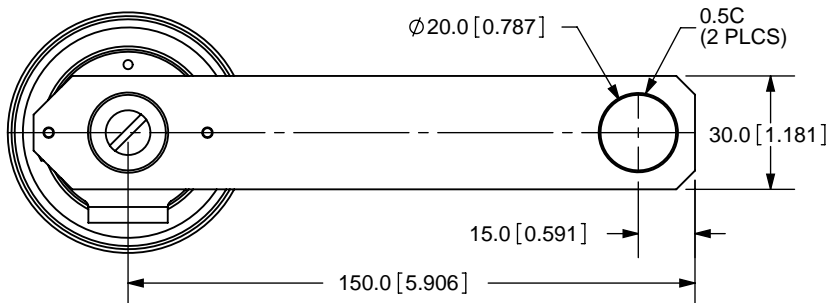
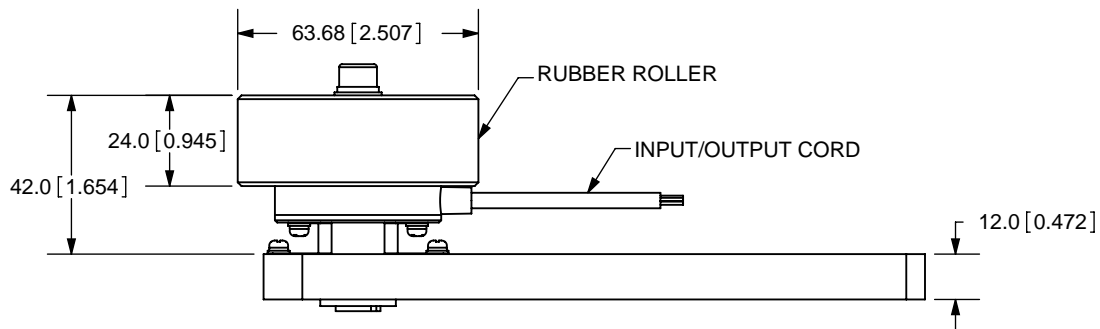


A capacitor (0.1 μF) is connected between 0V and FG (frame ground).

OUTPUT WAVEFORM



REV.	DESCRIPTION
A	NEW DRAWING



TOLERANCE:
±0.3mm UNLESS OTHERWISE
SPECIFIED



TITLE: ENCODER

PART NO. REH30R

DRAWN BY: ZRJ