SPECIFICATIONS

1. Supply Voltage: 5VDC ±10%
2. Current: 30mA
3. Output Voltage, H: 4.2V @ 3.3kΩ pull up
   L : 0.5 or less
4. Sink Current: 30mA
5. Signal Risetime: 2µS
6. Freq. Response: 150kHz

MECHANICAL

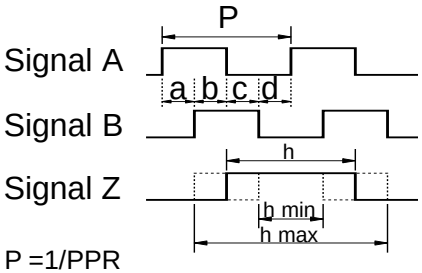
1. Moment of Inertia: $7x10^{-6}$ Nm^2
2. Maximum speed: 10,000 RPM

ENVIRONMENTAL

1. Operating Temp: -10° to +80° C
2. Storage Temp: -20° to +80° C
3. Humidity: 90% RH, no condensation
4. Vibration: 55 Hz, 1.5 mm, 2 hrs, 3 axes
5. Shock: 50G, 11ms, 3 axes, 3 reps

OUTPUT WAVEFORM

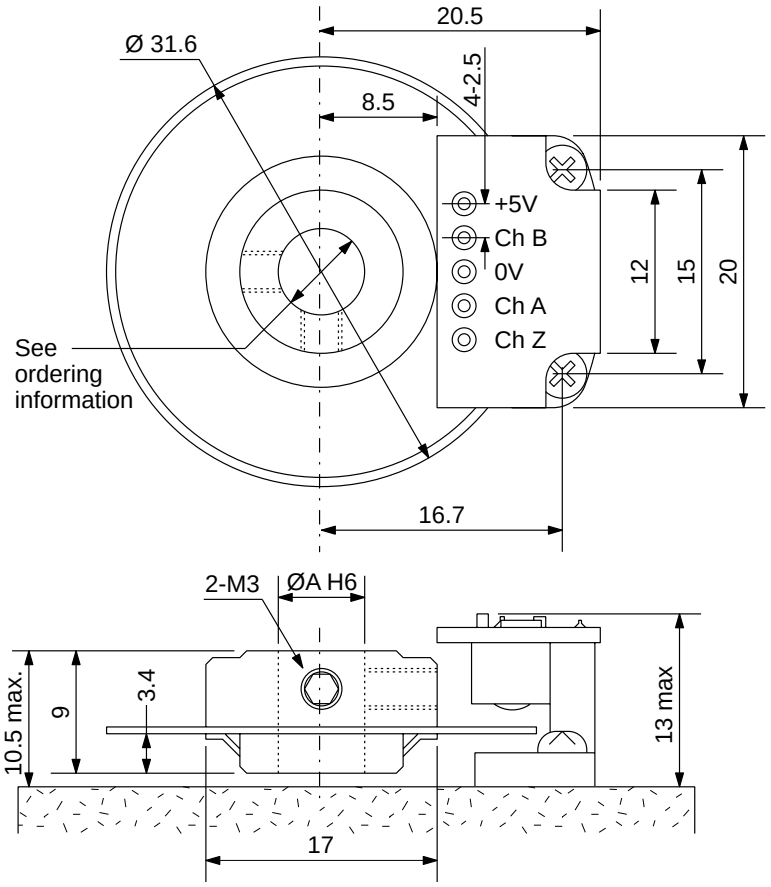
(Clockwise rotation viewed from front)



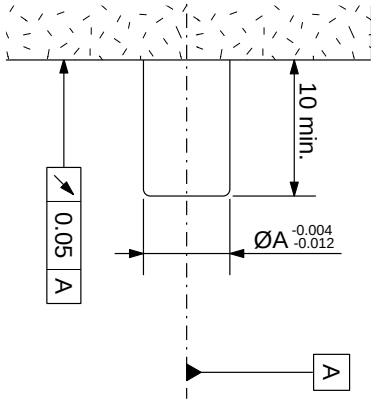
P =1/PPR

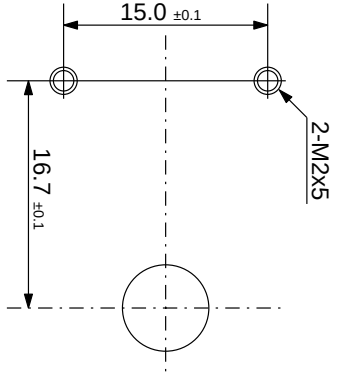
$a,b,c,d = \frac{P}{4} \pm \frac{P}{8}$ $\quad h = P \pm 0.75P$

Wave Duty Ratio: 50% ± 25%



Mounting Configuration





STANDARD RESOLUTIONS

MG30-XXXX

100	100 P/R	450	450 P/R	1024	1024 P/R
200	200 P/R	500	500 P/R	1200	1200 P/R
250	250 P/R	600	600 P/R	1500	1500 P/R
300	300 P/R	800	800 P/R	1800	1800 P/R
400	400 P/R	1000	1000 P/R	2000	2000 P/R

ORDERING INFORMATION

MG30- ___ - __ - ___

Resolution

Output Type:
C = Open Collector
' ' = TTL Voltage

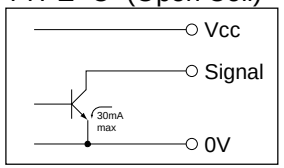
Bore Size:
*500 = Ø5mm
635 = Ø6.35mm (1/4")
*800 = Ø8mm
9525 = Ø9.525mm (3/8")
*1000 = Ø10mm

*Signifies standard bore sizes.

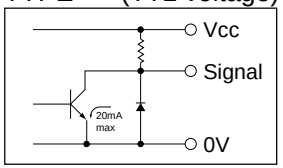
Motor Shaft and Gap Tolerances (mm)			
Gap	Radial play	Axial play	--- PPR ---
0.50	0.05	0.20	100~300
0.30	0.05	0.10	400~1024
0.20	0.02	0.05	1200~2000

OUTPUT CIRCUIT

TYPE "C" (Open Coll)



TYPE " " (TTL Voltage)



C U I Stack, Inc.
9615 SW Allen Blvd. #103
Beaverton, OR 97005
Tel: 503/643-4899 FAX: 503/643-6129

DRAWN BY	UPDATED	CHECKED	RELEASED
JAS	01/29/01	01/29/01	

PART NO. MG30-XXX-X-XXX

REV. A