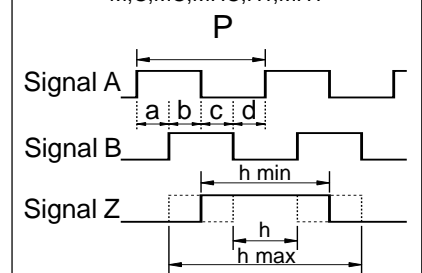


Output Waveform

Clockwise rotation viewed from front
 M, C, MC, MHC, HT, MHT



$$P = \frac{1}{PPR}$$

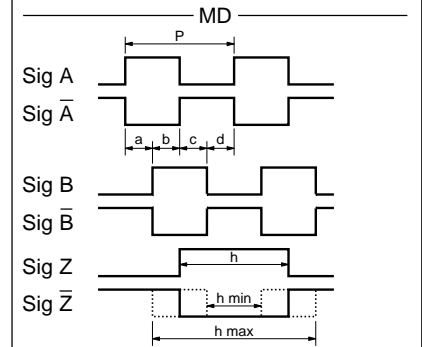
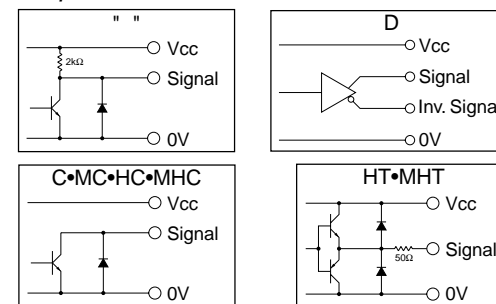
$$a, b, c, d = \frac{P}{4} \pm \frac{P}{8} \quad h = P \pm 0.75P$$

Wave Duty Ratio: 50% ± 25%

Electrical Specifications

TYPE		" "	C	HC/HCP	HT	D
Supply Voltage		4.5 ~ 13.2VDC		10.6 to 26.4 VDC		5.0 VDC ±5%
Current		≤ 50mA	60mA max			≤ 150mA
Output Voltage	H	Vcc -1V			Vcc -3V	≥ 2.5V
	L	≤ 0.5V			≤ 3.0V	≤ 0.5V
Sink Current		20mA max			≤ 40mA	≤ 20mA
Signal Risetime		≤ 1µS				≤ 200 nS
Freq. Response		200kHz				

Output Circuits



Mechanical

1. Max Shaft Load, radial: 2.5 kgf axial: 4.0 kgf
2. Max Slewing Speed: 5000 RPM
3. Starting Torque: 10gf•cm max.
4. Rotational Life: 1 x 10⁸ rpm•hrs

Environmental

1. Operating Temp: -10° to +70° C
2. Storage Temp: -30° to +80° C
3. Humidity: ≤ 85% RH, no condensation
4. Vibration: 10~55 Hz, 1.5 mm, 2 hrs
5. Shock: 294m/S², 3 axes, 3 reps
6. Protection: IP50

Standard Resolutions

NSO-XXXX			
30	30 P/R	600	600 P/R
40	40 P/R	900	900 P/R
60	60 P/R	1000	1000 P/R
100	100 P/R	1024	1024 P/R
120	120 P/R	1200	1200 P/R
200	200 P/R	1500	1500 P/R
250	250 P/R	1800	1800 P/R
300	300 P/R	2000	2000 P/R
360	360 P/R	2048	2048 P/R
400	400 P/R	2500	2500 P/R
500	500 P/R	4096	4096 P/R
512	512 P/R	5000	5000 P/R

Ordering Information

NSO-□□□□-□□□□-□-□□□□

Resolution(P/R) Output: " " = TTL Voltage
 Channels: 2=A/B C = Open Collector
 M=Index Channel HC = HV Open Coll
 HCP = PNP Push-Pull
 T = Push-Pull
 D = Diff Driver

Cable Length:
 050 = 0.5 meter*
 100 = 1.0 meter
 300 = 3.0 meter
 *Standard

Shaft Diameter:
 8 = Ø8.mm
 (custom sizes available)

CUI STACK

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

DRAWN BY JAS	UPDATED 12/20/00	CHECKED 12/20/00	RELEASED
PART NO. NSO-XXXX-2XXX-X-XXX			REV. A