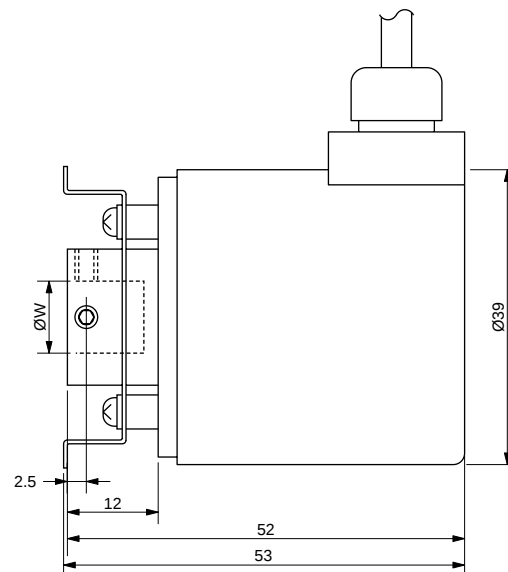
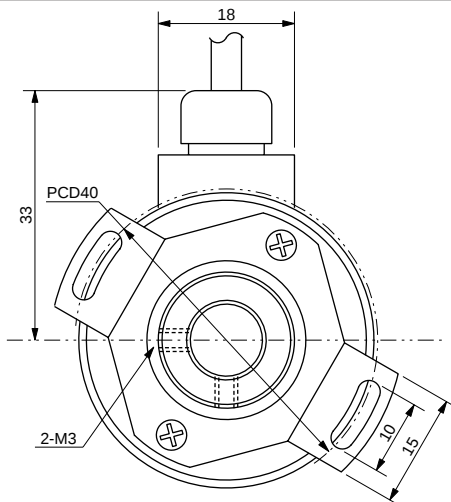


**IP65
Dust Proof
Drip Proof**



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Electrical Specifications

TYPE		2/2M	C/MC	HC/MHC	MT/MHT	MD
Supply Voltage		4.5 ~ 13.2VDC		10.6 to 26.4 VDC		5.0 VDC ±5%
Current		50mA max	60mA max			150mA max
Output Voltage	H	Vcc -1V	—————		Vcc -3V	≥ 2.5V
	L	≤ 0.5V			≤ 3.0V	≤ 0.5V
Sink Current		20mA max			40mA max	20mA max
Signal Risetime		≤ 1μS				≤ 200 nS
Freq. Response		200kHz				

Mechanical

1. Max Shaft Load, radial: 2.0 kgf
axial: 1.0 kgf
2. Moment of Inertia: 12.0 g•cm²
3. Angular Acceleration: 1x10⁵ rad/S²
4. Max Slewing Speed: 6000 RPM
5. Starting Torque: 50 gf•cm max.
6. Rotational Life: 1 x 10⁸ rpm•hrs

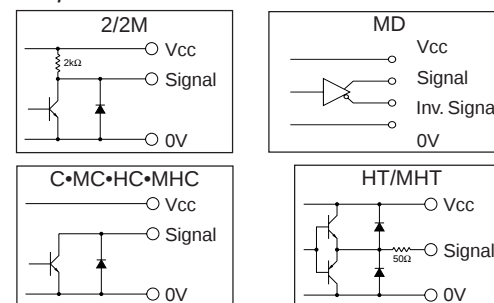
Environmental

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: 30G, 11ms, 3 axes, 3 reps
6. Protection: IP65

Standard Resolutions

NHF-XXX			
003	30 P/R	0646	646 P/R
01	100 P/R	08	800 P/R
02	200 P/R	09	900 P/R
025	250 P/R	10	1000 P/R
0256	256 P/R	1024	1024 P/R
03	300 P/R	12	1200 P/R
036	360 P/R	15	1500 P/R
04	400 P/R	18	1800 P/R
05	500 P/R	20	2000 P/R
0512	512 P/R	2048	2048 P/R
06	600 P/R	25	2500 P/R

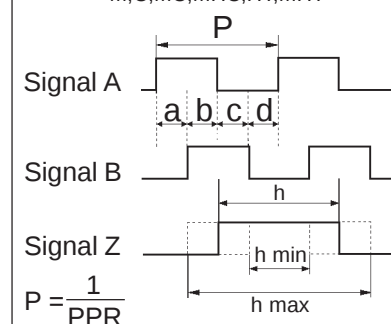
Output Circuits



Output Waveform

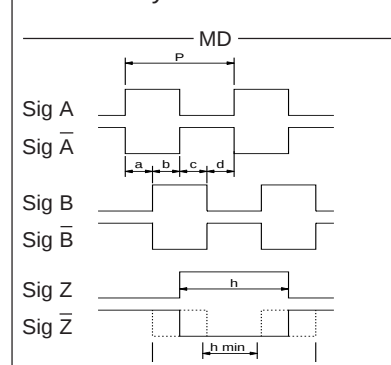
Clockwise rotation viewed from front

— M, C, MC, MHC, HT, MHT —



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

Wave Duty Ratio: 50% ± 25%



Ordering Information

NHF-□□□-□□□□-□□□□

Resolution(P/R) ———— Output Type: ———— Shaft Bore:
Channels: 2=A/B " " = TTL Voltage 500 = Ø5mm
M=Index Channel C = Open Collector 600 = Ø6mm
D = Diff Driver T = Push-Pull 635 = Ø6.35mm
800 = Ø8mm

CUI STACK		CUI Stack, Inc. 9615 SW Allen Blvd. #103 Beaverton, OR 97005 Tel: 503/643-4899 FAX: 503/643-6129	
DRAWN BY	UPDATED	CHECKED	RELEASED
PART NO. NHF-XXX-2XXX-XXX			REV. A