

Hand type the encoder (INCREMENTAL TYPE)

■ Features

- Application of NC lathe, milling, etc.
- Terminal connection type.
- Wide power voltage 5 to 24VDC ±5%.
(5VDC ±5% at line driver type)



■ Ordering information

ENH	100	1	1	
Series	Pulse/Revolution	Click stop position	Output	Power supply
Hand type the Encoder (INCREMENTAL Type)	25 P/R 100 P/R	1:A, B phase("H") 2:A, B phase("L")	1.Totem Pole output L.Line driver output 3.Voltage output	1:5~24VDC ±5% L:5VDC ±5% 3:5VDC, 12VDC, 24VDC ±5%

■ Specification

Item	Hand type the encoder(INCREMENTAL TYPE)		
Model	Totem Pole output	ENH-100-1-1, ENH-100-2-1	
	Line driver output	ENH-100-1-L, ENH-100-2-L	
Pulses/revolution	25, 100P/R		
Electrical specification	Output phase	A phase, B phase(Line driver:A phase, \bar{A} phase, B phase, \bar{B} phase)	
	Output of phase difference	output between A and B phase: $\frac{T}{4} \pm \frac{T}{8}$ (T=1cycle of A phase)	
	Control output	Totem Pole output	Low \Rightarrow load current:Max. 30mA, residual voltage:Max. 0.4V High \Rightarrow load current:Max. 10mA, output voltage:Min. (power supply-1.5)V
		Line driver output	Low \Rightarrow load current:Max. 20mA, residual voltage:Max. 0.5V High \Rightarrow load current:Max. 20mA, output voltage:power supply 2.5V
	Response time (rise & fall)	Totem Pole output	Min. 1 μ s
		Line driver output	Min. 200ns
	Power supply	Totem Pole output	5 to 24VDC ±5%(ripple P-P:Max. 3%)
		Line driver output	5VDC ±5%(ripple P-P:Max. 3%)
	Current consumption	Totem Pole output	Max. 50mA
		Line driver output	Max. 80mA
Max. response frequency	10KHz		
Mechanical specification	Starting torque	Max. 1000gf · cm (98000 μ N · m)	
	Shaft loading	Radial:2Kg, Thrust:1Kg	
	Mechanical revolution(rpm)	600rpm ★(Note1)	
Insulation resistance	Min. 50M Ω (at 500VDC)		
Dielectric strength	500VAC 50/60Hz for 1minute		
Vibration	1.5mm amplitude at frequency of 10 to 50Hz in each of X,Y,Z directions for 2 hours		
Shock	Max. 50G		
Ambient temperature	Operating:0 to 70 $^{\circ}$ C (non-freezing condition), storage:-25 to 85 $^{\circ}$ C		
Ambient Humidity	Operating:35 to 85%RH, storage:-25 to 85%RH		
Weight	About 270g		

*The weight of above chart is not weight.

★(note1) Max. response frequency(rpm)= $\frac{\text{Max. rpm}}{\text{Revolution}} \times 60$ (but max. rpm \leq max. allowable rotation)□

Output wave

Model	ENH-100-1-1	ENH-100-2-1	ENH-100-1-L	ENH-100-2-L
Output wave				

Control output circuit

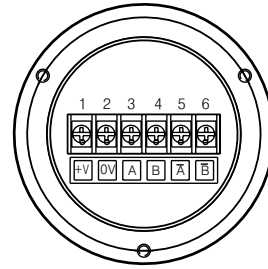
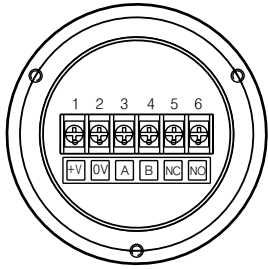
Totem pole output				Line driver output	
Voltage output		NPN open collector output		Line driver output	
Encoder circuit	Load connection	Encoder circuit	Load connection	Encoder circuit	Load connection

*The output circuit of A, B phase is the same.

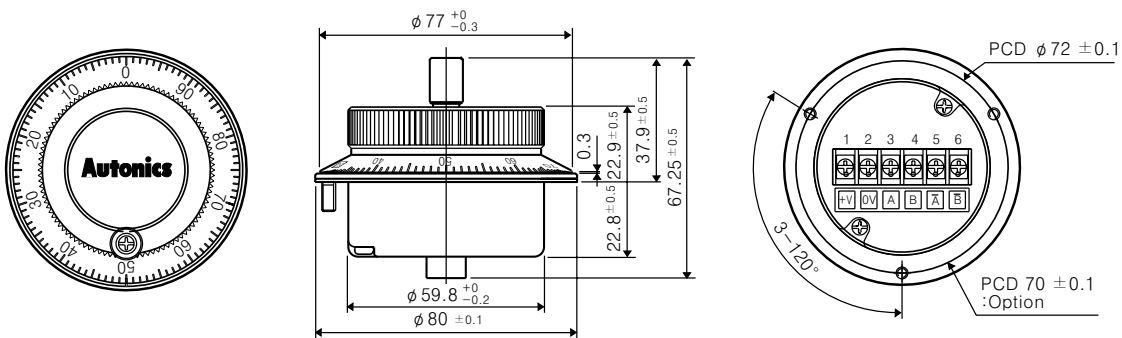
Connection

● Totem Pole/ Voltage output

● Line driver output



Dimension



unit:mm