

Portable Manual Handle Type Pulse Generators



ENHP Series CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Ideal for manual pulse input applications including NC machinery and milling machines
- Emergency stop switch, enable operation switch
- 6-position axis selector switch, 4-position rate selector switch
- Resolution: 100 pulses per revolution
- Power supply: 5 VDC \pm 5%, 12 - 24 VDC \pm 5%

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

ENHP - 100 - ① - ② - ③

① Click stopper position

- 1: Normal "H"
- 2: Normal "L"

② Control output

- T: Totem pole output
- L: Line driver output

③ Power supply

- 5: 5 VDC \pm 5%
- 24: 12 - 24 VDC \pm 5%

Product Components

- Product
- Instruction manual

Specifications

Model	ENHP-100-□-T-□	ENHP-100-□-L-5
Resolution	100 PPR	
Control output	Totem pole output	Line driver output
Output phase	A, B	A, \bar{A} , B, \bar{B}
Rotary switch output	BCD code: Rate select switch (R1, R2, R3, R4) Axis select switch (OFF, X, Y, Z, A, B)	
Inflow current	≤ 30 mA	≤ 20 mA
Residual voltage	≤ 0.4 VDC \pm	≤ 0.5 VDC \pm
Outflow current	≤ 10 mA	≤ -20 mA
Output voltage (5 VDC \pm)	\geq (power supply -2.0) VDC \pm	≥ 2.5 VDC \pm
Output voltage (12 - 24 VDC \pm)	\geq (power supply -3.0) VDC \pm	-
Response speed ⁰¹⁾	≤ 1 μ s	≤ 0.5 μ s
Max. response freq.	10 kHz	
Max. allowable revolution ⁰²⁾	Normal: ≤ 200 rpm, Peak: ≤ 600 rpm	
Starting torque	≤ 0.098 N m	
Allowable shaft load	Radial: ≤ 2 kgf, Thrust: ≤ 1 kgf	
Unit weight	≈ 730 g	
Approval	CE ENEC	ENEC

01) Based on cable length: 1 m, I sink: 20 mA

02) Select resolution to satisfy Max. allowable revolution \geq Max. response revolution

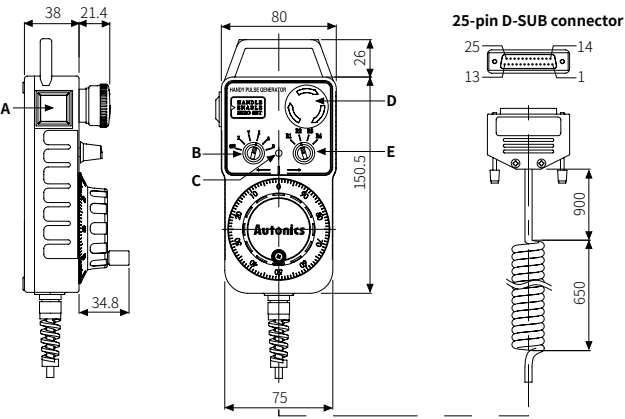
[max. response revolution (rpm) = $\frac{\text{max. response frequency}}{\text{resolution}} \times 60 \text{ sec}$]

Model	ENHP-100-□-T-□	ENHP-100-□-L-5
Power supply	5 VDC \pm 5% (ripple P-P: $\leq 5\%$) / 12 - 24 VDC \pm 5% (ripple P-P: $\leq 5\%$) model	5 VDC \pm 5% (ripple P-P: $\leq 5\%$)
Current consumption	≤ 40 mA (no load)	≤ 50 mA (no load)
Insulation resistance	Between all terminals and case: ≥ 100 M Ω (500 VDC \pm megger)	
Dielectric strength	Between all terminals and case: 750 VAC \sim 50 / 60 Hz for 1 minute	
Vibration	1 mm double amplitude at frequency 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 2 hours	
Shock	≤ 50 G	
Ambient temp.	-10 to 70 °C, storage: -25 to 85 °C (no freezing or condensation)	
Ambient humi.	35 to 85%RH, storage: 35 to 90%RH (no freezing or condensation)	
Protection rating ⁰¹⁾	IP67 (IEC standard)	
Connection	connector type	
Cable spec.	$\varnothing 5$ mm, 18-wire, 8 m, spring code cable	
Wire spec.	AWG28 (0.08 mm, 18-core), insulator diameter: $\varnothing 0.7$ mm	
Connector spec.	25-pin D-SUB	

01) It is protection for the back case and the wiring part.

Dimensions

• Unit: mm, For the detailed drawings, follow the Autonics website.



A	ENABLE switch	C	Indicator	E	Rate select switch
B	Axis select switch	D	Emergency stop switch		