Autonics

Manual Handle Type Pulse Generators

ENH 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
- Terminal connection type
- Resolutions: 25, 100 pulses per revolution
- Power supply: 5 VDC⎓ ± 5%, 12 - 24 VDC⎓ ± 5%

Ordering Information

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

ENH	-	❶	-	❷	-	❸	-	❹

❶ Resolution
Number: Refer to resolution in 'Specifications'

❷ Click stopper position
1: Normal "H"
2: Normal "L"

❸ Control output
T: Totem pole output
V: Voltage output
L: Line driver output

❹ Power supply
5: 5 VDC⎓ ±5%
24: 12 - 24 VDC⎓ ±5%

Product Components

- Product
- Instruction manual

Specifications

Model	ENH-□-□-T-□	ENH-□-□-V-□	ENH-□-□-L-5
Resolution	25 / 100 PPR model		
Control output	Totem pole output	Voltage output	Line driver output
Output phase	A, B	A, B	A, B, $\overline{A}$, $\overline{B}$
Inflow current	≤ 30 mA	-	≤ 20 mA
Residual voltage	≤ 0.4 VDC⎓	≤ 0.4 VDC⎓	≤ 0.5 VDC⎓
Outflow current	≤ 10 mA	≤ 10 mA	≤ -20 mA
Output voltage (5 VDC⎓)	≥ (power supply -2.0) VDC⎓	-	≥ 2.5 VDC⎓
Output voltage (12 - 24 VDC⎓)	≥ (power supply -3.0) VDC⎓	-	-
Response speed [01]	≤ 1 μs	≤ 1 μs	≤ 0.2 μs
Max. response freq.	10 kHz		
Max. allowable revolution [02]	Normal: ≤ 200 rpm, Peak: ≤ 600 rpm		
Starting torque	≤ 0.098 N m		
Alloawable shaft load	Radial: ≤ 2 kgf, Thrust: ≤ 1 kgf		
Unit weight (packaged)	≈ 260 g (≈ 330 g)		
Approval	CE EAC	CE EAC	EAC

01) Based on cable length: 1 m, I sink: 20 mA
02) Select resolution to satisfy Max. allowable revolution ≥ Max. response revolution

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

Model	ENH-□-□-T-□	ENH-□-□-V-□	ENH-□-□-L-5
Power supply	5 VDC⎓ ± 5% (ripple P-P: ≤ 5%) / 12 - 24 VDC⎓ ± 5% (ripple P-P: ≤ 5%) model		5 VDC⎓ ± 5% (ripple P-P: ≤ 5%)
Current consumption	≤ 40 mA (no load)		≤ 50 mA (no load)
Insulation resistance	Between all terminals and case: ≥ 100 MΩ (500 VDC⎓ megger)		
Dielectric strength	Between all terminals and case: 750 VAC~ 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	IP50 (IEC standard)		
Connection	Terminal block type		

Dimensions

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

Autonics