

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 \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.

| | | | | | | | | |
|-----|---|---|---|---|---|---|---|---|
| ENH | - | ① | - | ② | - | ③ | - | ④ |
|-----|---|---|---|---|---|---|---|---|

① Resolution

Number: Refer to resolution in "Specifications"

② Click stopper position

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

③ Control output

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

④ Power supply

- 5: 5 VDC \pm 5%
- 24: 12 - 24 VDC \pm 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, \bar{A} , \bar{B} |
| Inflow current | \leq 30 mA | - | \leq 20 mA |
| Residual voltage | \leq 0.4 VDC \pm | \leq 0.4 VDC \pm | \leq 0.5 VDC \pm |
| Outflow current | \leq 10 mA | \leq 10 mA | \leq -20 mA |
| Output voltage (5 VDC \pm) | \geq (power supply -2.0) VDC \pm | - | \geq 2.5 VDC \pm |
| Output voltage (12 - 24 VDC \pm) | \geq (power supply -3.0) VDC \pm | - | - |
| Response speed ⁰¹⁾ | \leq 1 μ s | \leq 1 μ s | \leq 0.2 μ s |
| Max. response freq. | 10 kHz | | |
| Max. allowable revolution ⁰²⁾ | Normal: \leq 200 rpm, Peak: \leq 600 rpm | | |
| Starting torque | \leq 0.098 N m | | |
| Allowable shaft load | Radial: \leq 2 kgf, Thrust: \leq 1 kgf | | |
| Unit weight (packaged) | \approx 260 g (\approx 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 \geq Max. response revolution
 [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 \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 | \leq 40 mA (no load) | | \leq 50 mA (no load) |
| Insulation resistance | Between all terminals and case: \geq 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 | \leq 50 G | | |
| Ambient temp. | -10 to 70 $^{\circ}$ C, storage: -25 to 85 $^{\circ}$ 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.

