40 mm Diameter Incremental

Rotary Encoders

E40 Series



Features

- \cdot Ø 40 mm housing incremental rotary encoders
- · Shaft, hollow shaft, blind hollow shaft models available
- · Easy installation in tight or limited spaces
- · Low shaft moment of inertia
- · Various resolutions: 1 to 5000 pulses per revolution
- · Various control output options
- · Power supply: 5 VDC== ± 5%, 12 - 24 VDC== ± 5%

Specifications

Model	E40□□-□- □-T-□-□	E40□□-□- □-N-□-□	E40□□-□-	E40□□-□- □-L-□-□
Resolution	1/2/5/12 PPR ⁰¹⁾ 10 to 5,000 PPR model			
Control output	Totem pole output	NPN open collector output	Voltage output	Line driver output
Output phase	A, B, Z	A, B, Z	A, B, Z	A, \overline{A} , B, \overline{B} , Z, \overline{Z}
Inflow current	≤ 30 mA	≤ 30 mA	-	≤ 20 mA
Residual voltage	≤ 0.4 VDC==	≤ 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==	-	-	≥ (power supply -3.0) VDC==
Response speed 02)	≤1µs			≤ 0.5 µs
Max. response freq.	300 kHz			
Max. allowable revolution ⁰³⁾	5,000 rpm			
Starting torque	E40S: ≤ 0.004 N m E40H, E40HB: ≤ 0.005 N m			
Inertia moment	≤ 40 g·cm² (4 × 10 ⁻⁶ kg·m²)			
Allowable shaft load	Radial: ≤ 2 kgf, Thrust: ≤ 1 kgf			
Unit weight	≈ 120 g			
Approval	C € ERE	C € ERI	C € ERE	EAC

- 03) Sepending on the control output, only A, B or A, Ā, B, B are output.
 02) Based on cable length: 2 m, I sink: 20 mA
 03) Select resolution to satisfy Max. allowable revolution ≥ Max. response revolution
 [max. response revolution (rpm) = max. response frequency resolution

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View product detail





Shaft Type

Shaft Type