










ERN incremental rotary encoders / AEF, ECN, ECI, and KCI absolute singletum rotary encoders

Model	Outside dia. ¹⁾	Shaft version	Protection rating	Incremental signals	Signal periods per revolution	Absolute position values	Position values per rev. Commutation	Brake stroke monitoring
ERN 120 ERN 130 ERN 180	87 mm	Hollow through shaft, Ø 20 mm, 25 mm, 30 mm, 38 mm, or 50 mm	IP64	 TTL	1000 to 5000	–	–	–
 HTL								
 1 V _{PP}								
ECN 113				 1 V _{PP}	2048	EnDat01	8192 (13 bits)	–
ECN 125				–	–	EnDat22	33 554 435 (25 bits)	–
ERN 1321 ²⁾	58 mm	Taper shaft, Ø 9.25 mm, 1:10 taper	<i>ECN/ERN 400:</i> IP64 <i>AEF/ECN/ERN 1300:</i> IP40	 TTL	1024 to 10000	–	–	–
ERN 1326 ²⁾				 TTL	1024, 2048, 4096, or 8192	UVW	Three signals for block commutation	–
ERN 1381 ²⁾				 1 V _{PP}	512, 1024, 2048, 4096	–	–	–
ERN 1387 ERN 487				 1 V _{PP}	2048	 1 V _{PP}	Z1 track for sine commutation	–
ECN 1313 ³⁾ ECN 413					2048	EnDat01	8192 (13 bits)	–
ECN 1325 ³⁾ ECN 425					–	EnDat22	33 554 435 (25 bits)	–
AEF 1323 ³⁾						8388608 (23 bits)	–	
KCI 419 ⁴⁾	65 mm	12 mm	IP37	–	–	EnDat22	524288 (19 bits)	0.5 mm to 1.6 mm
ECI 119	87 mm	30 mm, 38 mm, 50 mm	IP20	–	–	EnDat22	524288 (19 bits)	–
ECI 4010 ³⁾	174 mm, 262 mm	Hollow through shaft, Ø 90 mm, 180 mm	IP20	–	–	EnDat22	1 048 576 (20 bits)	–

1) Rotary encoder housing

2) Only in version with expanding ring coupling

3) Connection of an external temperature sensor in the motor is possible

4) Output of additional temperature values (armature plate of the brake)