

ENX 16 EASY INT Encoder Ø16 mm, 1...1024 CPT/4096 steps, Single Turn

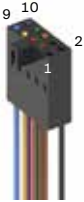

Sterilizable, integrated into motor




Key Data	EASY Incremental Differential	EASY Absolute
Number of channels	3	
Max. counts per turn	1024	
Steps per turn		4096
Resolution (bit single turn)		12
Encoder length L	mm -1 (integrated into motor)	-1 (integrated into motor)
Ambient temperature	°C -40...100	-40...100
Weight	g <5	<5

Selection criteria	EASY Incremental Differential	EASY Absolute
Speed and rotation direction detection	■	■
Speed and position control	■	■
Compact and robust design	■	■
High resolution	■	■
Cost effective	■	■

■ suitable ▲ suitable to a limited extent ● not suitable

Specifications	EASY Incremental Differential ³	EASY Absolute
Supply voltage Vcc	V 5 ± 0.5	5 ± 0.5
Typical current draw	mA 22	22
Max. operating frequency	kHz 4000	
Max. Speed	rpm 200 000	200 000
Connector ²	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) cable AWG 28	without connector
	Pin 1 Not connected Pin 2 (black) V _{CC} Pin 3 (brown) GND Pin 4 Not connected Pin 5 (red) Channel Ā Pin 6 (orange) Channel A Pin 7 (yellow) Channel B̄ Pin 8 (green) Channel B Pin 9 (blue) Channel Ī Pin 10 (violet) Channel I	cable AWG 28 green Data black V _{CC} brown GND yellow CLK
		
	Output signal: EIA-Standard RS 422 Output current per channel: ± 20 mA	Output signal: CMOS compatible Output current per channel + 20 mA

Configuration	EASY Incremental Differential	EASY Absolute
Counts per turn ¹	1...1024	
Signalprotokoll		BiSS-C, SSI
Cable length	mm 200, 500	200, 500
Electric connection		cable length/pin connection/connector

maxon Modular System	Page	Sterilization information	Notes
maxon EC motor			
ECX SPEED 16 M	195-198	 Typically 1000 autoclave cycles	¹ maxon controllers require a resolution of at least 16 counts per turn and commutation signals. ² H1, index and angle zero are aligned with angle commutation zero (see p. 56).
ECX SPEED 16 L	199-202		
		Sterilization with steam Temperature +134 ± 4°C Compression pressure up to 2.3 bar Rel. humidity 100% Cycle length 18 minutes	
		The connector is not sterilizable and needs to be removed first.	