

ENX 8 EASY INT Encoder Ø8 mm, 1...1024 CPT

Integrated into motor



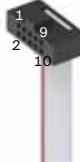
ENX

Key Data	EASY Incremental Differential	EASY Incremental, Commutation Signal
Number of channels	3	3
Max. counts per turn	1024	1024
Encoder length L	mm 0 (integrated into motor)	0 (integrated into motor)
Ambient temperature ²	°C -20...100 (-40...100)	-20...100 (-40...100)
Weight	g <4	<4

Selection criteria	EASY Incremental Differential	EASY Incremental, Commutation Signal
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	EASY Incremental, Commutation Signal
Supply voltage Vcc	V 5 ±0.5	5 ±0.5
Typical current draw	mA 17	17
Max. operating frequency	kHz 500	500
Max. Speed ⁵	rpm 30 000–80 000	30 000–80 000
Connector ³	10-pin 1.27 mm multipoint connector e.g. Samtec FFSD series	10-pin 1.27 mm multipoint connector e.g. Samtec FFSD series
	Pin 1 Do not connect ⁴ (BiSS-C Data)	Pin 1 Do not connect ⁴ (BiSS-C Data)
	Pin 2 V _{cc} 4.5...5.5	Pin 2 V _{cc} 4.5...5.5
	Pin 3 GND	Pin 3 GND
	Pin 4 Do not connect ⁴ (BiSS-C CLK)	Pin 4 Do not connect ⁴ (BiSS-C CLK)
	Pin 5 Channel Ā	Pin 5 H1
	Pin 6 Channel A	Pin 6 Channel A
	Pin 7 Channel B̄	Pin 7 H2
	Pin 8 Channel B	Pin 8 Channel B
	Pin 9 Channel Ī	Pin 9 H3
	Pin 10 Channel I	Pin 10 Channel I
	Output signal: EIA-Standard RS 422	Output signal: CMOS compatible
	Output current per channel: ± 20 mA	Output current per channel: + 20 mA



Adapter Micromotor (Art.-No. 498157)
required for all maxon controllers.

Configuration	EASY Incremental Differential	EASY Incremental, Commutation Signal
Counts per turn ¹	1...128, 256, 512, 1024	1...128, 256, 512, 1024
Cable length	mm 50, 100, 150, 200, 250, 300	50, 100, 150, 200, 250, 300
Cable insulation ²	PVC/PO/FEP	PVC/PO/FEP
Alignment of cable outlet in relation to motor flange	° axial	axial

maxon Modular System	Page	Dimensions Standard Version	M 3:4	Notes
maxon EC motor				
ECX SPEED 8 M	185–186			
				¹ maxon controllers require a resolution of at least 16 counts per turn and commutation signals.
				² For PVC-cable (-20...100°C)
				For PO- and FEP cable (-40...100°C)
				³ H1, index and angle zero are aligned with angle commutation zero (see p. 56).
				⁴ Applying voltage to these pins may destroy the encoder.
				⁵ The max. possible speed depends on the selected counts per turn.

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