

# ENX 6 MAG Encoder $\varnothing$ 6 mm, 1...256 CPT



ENX

Key Data	ENX 6 MAG Incremental	ENX 6 MAG Incremental, Commutation Signal
Number of channels	3	3
Max. counts per turn	256	256
Additional length at motor	mm 6.2	2.1
Ambient temperature	$^{\circ}\text{C}$ -40...100	-40.. 100
Weight	g 1	1

Selection criteria	ENX 6 MAG Incremental	ENX 6 MAG 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	ENX 6 MAG Incremental	ENX 6 MAG Incremental, Commutation Signal
Supply voltage $V_{cc}$	V 3.0...3.6	3.0.. 3.6
Typical current draw	mA 13	13
Max. operating frequency	kHz 500	500
Max. Speed	rpm 100 000	100 000
Connection <sup>3</sup>	FPC, 12 pole, pitch 0.5 mm Pin 1 Motor+ Pin 2 Motor- Pin 3 Not connected Pin 4 GND Pin 5 $V_{cc}$ Pin 6 Channel A Pin 7 Channel B Pin 8 Channel I Pin 9-12 Do not connect <sup>1</sup> Output signal: CMOS compatible Output current per channel: $\pm 4$ mA	FPC, 12 pole, pitch 0.5 mm Pin 1 W1 Pin 2 W2 Pin 3 W3 Pin 4 GND Pin 5 $V_{cc}$ Pin 6 Channel A Pin 7 Channel B Pin 8 Channel I Pin 9 H1 Pin 10 H2 Pin 11 H3 Pin 12 Not connect <sup>1</sup> Output signal: CMOS compatible Output current per channel: $\pm 4$ mA

Configuration	ENX 6 MAG Incremental	ENX 6 MAG Incremental, Commutation Signal
Counts per turn <sup>2</sup>	1...256	1...256

maxon Modular System	Page	Dimensions Standard Version	Notes
maxon DC motor			
DCX 6 M	85		<p><sup>1</sup> Applying voltage to these pins may destroy the encoder.</p> <p><sup>2</sup> maxon controllers require a resolution of at least 16 pulses.</p> <p><sup>3</sup> H1, index and angle zero are aligned with angle commutation zero (see p. 56).</p> <p><b>Compatible connector:</b> Molex 52745-1297, TE 1-1734839-2 Adapter 498157 required for all maxon controllers</p> <p><b>Please note:</b> max. continuous current 0.5 A</p>
maxon EC motor			
ECX SPEED 6 M	183-184		

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