

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 ⁴	mm	6.2	0.02.1
Ambient temperature	°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 Supply voltage V _{cc} Typical current draw Max. operating frequency Max. Speed Connection ³	ENX 6 MAG incremental V 3.03.6 mA 13 kHz 500 rpm 100 000 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 ¹ Output signal: CMOS compatible Output current per channel: ±4 mA	ENX 6 MAG incremental, commutation signal $3.03.6$ 13 500 100000 FPC, 12 pole, pitch 0.5 mmPin 1Pin 2W2Pin 3W3Pin 4GNDPin 5V _{cc} Pin 6channel APin 7channel BPin 8Pin 9H1Pin 10H2Pin 11H3Pin 12Output signal: CMOS compatible
		=
Configuration	ENX 6 MAG incremental	ENX 6 MAG incremental, commutation signal
Counts per turn ²	1256	1256

Modular system	Page Dir	nensions standard version	M 1:1 Notes
DC motor			¹ Applying voltage to these pins may destroy the
DCX 6 M	97		encoder.
		_	² maxon controllers require a resolution of at least
C motor		0 	16 counts per turn.
ECX SPEED 6 M	195-196		³ H1, index and angle zero are aligned with angle
ECX PRIME 6 M	235		commutation zero (see p. 66).
			⁴ The additional length or total length of a motor-
			encoder combination can be found on the
			respective dimensional drawing.
			80
			+ Compatible connector:
			Molex 52745-1297, TE 1-1734839-2
			Adapter 498157 required for all maxon controllers
		<u>amtmm</u>	1
		6.5 ±0.05 0.3 ±0.05	Please note: max. continuous current 0.5 A
			Further technical details can be found in the produc
			information in the online shop under Downloads.