

ENX 8 MAG Encoder Ø8 mm, 1...256 CPT



ENX

Key Data	ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Number of channels	3	3
Max. counts per turn	256	256
Additional length at motor	mm 7.0	1.0
Ambient temperature	°C -40...100	-40...100
Weight	g 1	1

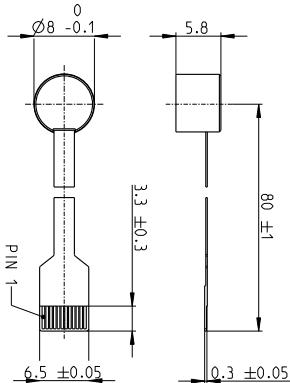
Selection criteria	ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Speed and rotation direction detection	■	■
Speed and position control	■	■
Compact and robust design	■	■
High resolution	▲	▲
Cost effective	■	■

■ suitable ▲ suitable to a limited extent ● not suitable

Specifications	ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Supply voltage V <sub>cc</sub>	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 <sub>cc</sub> 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: ±4 mA	FPC, 12 pole, pitch 0.5 mm Pin 1 W1 Pin 2 W2 Pin 3 W3 Pin 4 GND Pin 5 V <sub>cc</sub> Pin 6 channel A Pin 7 channel B Pin 8 channel I Pin 9 H1 Pin 10 H2 Pin 11 H3 Pin 12 do not connect <sup>1</sup> Output signal: CMOS compatible Output current per channel: ±4 mA

Configuration	ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Counts per turn <sup>2</sup>	1...256	1...256

modular system	Page	Dimensions standard version	M 1:1	Notes
DC motor				
DCX 8 M	96			
EC motor				
ECX SPEED 8 M	195–196			



<sup>1</sup> Applying voltage to these pins may destroy the encoder.  
<sup>2</sup> maxon controllers require a resolution of at least 16 counts per turn.  
<sup>3</sup> H1, index and angle zero are aligned with angle commutation zero (see p. 64).

**Compatible connector:**  
Molex 52745-1297, TE 1-1734839-2  
Adapter 498157 required for all maxon controllers

**Please note:** max. continuous current 0.5 A

Further technical details can be found in the product information in the online shop under Downloads.