ENX 8 MAG Encoder ∅8 mm, 1...256 CPT

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	■	■

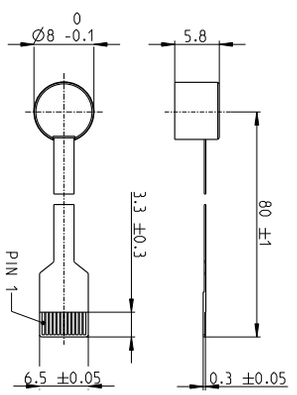
■ suitable ▲ suitable to a limited extent ● not suitable

Specifications		ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Supply voltage V_{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[3]		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	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 Do not connect[1] Output signal: CMOS compatible Output current per channel: ±4 mA

Configuration	ENX 8 MAG incremental	ENX 8 MAG incremental, commutation signal
Counts per turn[2]	1...256	1...256

modular system	Page
DC motor	
DCX 8 M	94
EC motor	
ECX SPEED 8 M	193–194

Dimensions standard version M 1:1



Notes

[1] Applying voltage to these pins may destroy the encoder.
[2] maxon controllers require a resolution of at least 16 pulses.
[3] H1, index and angle zero are aligned with angle commutation zero (see p. 62).

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

Please note: max. continuous current 0.5 A

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