

ENX 8 EASY INT Absolute Encoder Ø8 mm, 4096 steps, Single Turn

Integrated into motor



Key Data	EASY Absolute	EASY Absolute, Commutation Signal
Steps per turn	4096	4096
Resolution (bit single turn)	12	12
Encoder length L	mm 0 (integrated into motor)	0 (integrated into motor)
Ambient temperature ¹	°C -20...100 (-40...100)	-20...100 (-40...100)
Weight	g <4	<4

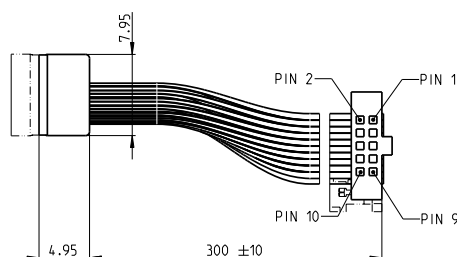
Selection criteria	EASY Absolute	EASY Absolute, Commutation Signal
Speed and rotation direction detection	■	■
Speed and position control	■	■
Compact and robust design	■	■
High resolution	■	■
Cost effective	■	■

■ suitable ▲ suitable to a limited extent ● not suitable

Specifications	EASY Absolute	EASY Absolute, Commutation Signal
Supply voltage V _{cc}	V 5 ±0.5	5 ±0.5
Typical current draw	mA 17	17
Max. Speed	rpm 80 000	80 000
Connector ²	10-pin 1.27 mm multipoint connector e.g. Samtec FFSD series Pin 1 Data Pin 2 V _{cc} 4.5...5.5 Pin 3 GND Pin 4 CLK Pin 5 Do not connect ³ (A) Pin 6 Do not connect ³ (A) Pin 7 Do not connect ³ (B) Pin 8 Do not connect ³ (B) Pin 9 Do not connect ³ (I) Pin 10 Do not connect ³ (I) Output signal: CMOS compatible Output current per channel: + 20 mA Adapter EASY Absolute (Part number 488167) required for all maxon controllers.	10-pin 1.27 mm multipoint connector e.g. Samtec FFSD series Pin 1 Data Pin 2 V _{cc} 4.5...5.5 Pin 3 GND Pin 4 CLK Pin 5 H1 Pin 6 Do not connect ³ (A) Pin 7 H2 Pin 8 Do not connect ³ (B) Pin 9 H3 Pin 10 Do not connect ³ (I) Output signal: CMOS compatible Output current per channel: + 20 mA

Configuration	EASY Absolute	EASY Absolute, Commutation Signal
Signal protocol	BiSS-C, SSI	BiSS-C, SSI
Cable length	mm 50, 100, 150, 200, 250, 300	50, 100, 150, 200, 250, 300
Cable insulation ¹	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 For PVC-cable (-20...100°C)

For PO- and FEP cable (-40...100°C)

² H1, index and angle zero are aligned with angle commutation zero (see p. 56).

³ Applying voltage to these pins may destroy the encoder.