

# ENX 10 EASY/QUAD

Encoder Ø10 mm, 1...1024 CPT

Capitalize Integrated



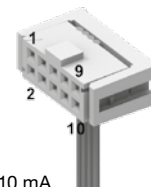
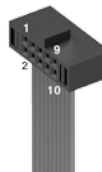
maxon ENX

Key Data	EASY Incremental Differential	QUAD Incremental
Number of channels	3	2
Max. counts per turn	1024	1
Encoder length L <sup>4</sup>	mm 8.5	8.5
Ambient temperature	°C -40 ... +100	-40 ... +100
Weight	g <5	<5

Selection criteria	EASY Incremental Differential	QUAD Incremental
Speed and rotation direction detection	■	■
Speed and position control	■	▲
Compact and robust design	■	■
High resolution	■	●
Cost effective	■	■

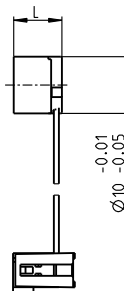
■ suitable ▲ suitable to a limited extent ● not suitable

Specifications	EASY Incremental Differential	QUAD Incremental
Supply voltage V <sub>cc</sub>	V 5 ±0.5	5 ±0.5
Typical current draw	mA 22	5.5
Max. operating frequency	kHz 500	2
Max. Speed	rpm 30000	30000
Connector	10-pin 1.27 mm multipoint connector <sup>5</sup> e.g. Samtec FFSD series	10-pin 2.54 mm multipoint connector <sup>3</sup> (IEC/EN 60603-1-DIN41651)
	Pin 1 Do not connect <sup>1</sup> (BiSS-C Data) Pin 2 V <sub>cc</sub> Pin 3 GND Pin 4 Do not connect <sup>1</sup> (BiSS-C CLK) Pin 5 Channel A Pin 6 Channel A Pin 7 Channel B Pin 8 Channel B Pin 9 Channel I Pin 10 Channel I Output signal: EIA-Standard RS 422 Output current per channel: ± 20 mA	Pin 1 Not connected Pin 2 V <sub>cc</sub> Pin 3 Channel A Pin 4 Channel B Pin 5 GND Pin 6 Not connected Pin 7 Not connected Pin 8 Not connected Pin 9 Not connected Pin 10 Not connected Output signal: TTL compatible Output current per channel: + 10 mA



Configuration	EASY Incremental Differential	QUAD Incremental
Counts per turn <sup>2</sup>	1 ... 1024	1
Cable length	mm 50, 100, 150, 200, 300, 500, 1000	50, 100, 150, 200, 300, 500, 1000
Alignment of cable outlet in relation to motor flange	° 15	15

maxon Modular System	Page	Dimensions Standard Configuration	M 1:1	Notes
<b>maxon DC motor</b>				
DCX 10 S	EASY, QUAD	68		<sup>1</sup> Applying voltage to these pins can destroy the encoder. <sup>2</sup> maxon controllers require a resolution of at least 16 counts per turn. <sup>3</sup> Option: 6-pol 2.54 mm pin header. <sup>4</sup> For attachment to DCX motors: plus 2-4 mm thick intermediate plate. <sup>5</sup> Option: Also available with FFC cable, 0.5 mm pitch matching connector Molex 52745-1097, adapter 506579 required for maxon controllers.
DCX 10 L	EASY, QUAD	69		
DCX 12 S	EASY, QUAD	70		
DCX 12 L	EASY, QUAD	71		
DCX 14 L	EASY, QUAD	72-73		
DCX 16 S	EASY, QUAD	74-75		
DCX 16 L	EASY, QUAD	76-77		
DCX 19 S	EASY, QUAD	78-79		
DCX 22 S	EASY, QUAD	80-81		
DCX 22 L	EASY, QUAD	82-83		
DCX 26 L	EASY, QUAD	84-85		
DCX 32 L	EASY, QUAD	86		
DCX 35 L	EASY, QUAD	87		
DC-max 16 S	EASY, QUAD	90-91		
DC-max 22 S	EASY, QUAD	92-93		
DC-max 26 S	QUAD	94-95		



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