

# ENX 10 EASY / QUAD Encoder $\varnothing$ 10 mm, 1...1024 CPT



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	9.0
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

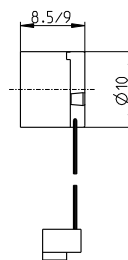
Specifications	EASY Incremental Differential	QUAD Incremental
Supply voltage V <sub>cc</sub>	V 5 ±0.5	3.0 – 24
Typical current draw	mA 22	5.5
Max. operating frequency	kHz 1600	2
Max. Speed	rpm 30000	30000
Connector	10-pin 1.27 mm multipoint connector e.g. Samtec FFSD series	

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



Configuration	EASY Incremental Differential	QUAD Incremental
Counts per turn <sup>2</sup>	1 ... 1024	1
Electrical connection	Flat band cable / flexible cable FFC <sup>3</sup>	Connector 6-pin, 10-pin
Cable length	mm 50, 100, 150, 200, 300, 500, 1000 / FFC <sup>3</sup> : 138 mm	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	87		<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> FFC cable: 0.5 mm pitch, possible matching connector Molex 52745-1097; adapter 506579 required for maxon controllers. <sup>4</sup> For attachment to DCX motors: plus 2-4 mm thick intermediate plate.
DCX 10 L	EASY, QUAD	88		
DCX 12 S	EASY, QUAD	89		
DCX 12 L	EASY, QUAD	90		
DCX 14 L	EASY, QUAD	91-92		
DCX 16 S	EASY, QUAD	93-94		
DCX 16 L	EASY, QUAD	95-96		
DCX 19 S	EASY, QUAD	97-98		
DCX 22 S	EASY, QUAD	99-100		
DCX 22 L	EASY, QUAD	101-102		
DCX 26 L	EASY, QUAD	103-104		
DCX 32 L	EASY, QUAD	105		
DCX 35 L	EASY, QUAD	106		
DC-max 16 S	EASY, QUAD	109-110		
DC-max 22 S	EASY, QUAD	111-112		
DC-max 26 S	QUAD	113-114		



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