## ENX 13 EASY INT Encoder Ø13 mm,

## 1...1024 CPT/4096 steps, Single Turn

Sterilizable, integrated into motor



Key Data	EASY Incremental Differential	EASY Absolute
Number of channels	3	
Max. counts per turn	1024	
Steps per turn		4096
Resolution (bit single turn)		12
Encoder length L	mm 0 (integrated into motor)	0 (integrated into motor)
Ambient temperature	°C -40100	-40100
Weight	g <5	<5

Selection criteria	EASY Incremental Differential	<b>EASY Absolute</b>	
Speed and rotation direction detection			
Speed and position control			
Compact and robust design			
High resolution			
Cost effective			

suitable	suitable to a limited extent	<ul><li>not suitable</li></ul>
suitable	suitable to a limited extent	<ul><li>not suitable</li></ul>

Specifications	EASY Incremental Differential EASY Absolute	
Supply voltage Vcc	V 5±0.5	
Typical current draw	mA 22 22	
Max. operating frequency	kHz 4000	
Max. Speed	rpm 200 000 200 000	
Connector <sup>2</sup>	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Output signal: EIA-Standard RS 422 Output signal: CMOS compatible Output current per channel: ± 20 mA Output current per channel: ± 20 mA	
Configuration	EASY Incremental Differential EASY Absolute	
Counts per turn <sup>1</sup>	11024	
Signal protocol	BiSS-C, SSI	
Cable length	mm 200,500 200,500	
Electric connection	cable length/pin connection/connector	

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maxon Modular System	Page St	terilization information		Notes
maxon EC motor	_			
ECX SPEED 13 M	187-190	35°C Typically 1000 autoclave cycles		<sup>1</sup> maxon controllers require a resolution of
ECX SPEED 13 L		SSS		at least 16 counts per turn and commutation signals.
		Sterilization with steam		<sup>2</sup> H1, index and angle zero are aligned with angle
		Temperature	+134 ± 4°C	,
		Compression pressure up to	2.3 bar	` ' '
		Rel. humidity	100%	
		Cycle length	18 minutes	
		3,4 4 3		
		The connector is not sterilizable		
		and needs to be removed first.		
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