ENX 19 EASY INT Encoder Ø19 mm,

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

Sterilizable, integrated into motor



K 5 .		
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 -1.4 (integrated into motor)	-1.4 (integrated into motor)
Ambient temperature	°C -40100	-40100
Weight	g <5	<5

Selection criteria	EASY Incremental Differential	EASY Absolute	
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 ³	EASY Absolute
Supply voltage Vcc	V 5 ± 0.5	5 ± 0.5
Typical current draw	mA 22	22
Max. operating frequency	kHz 4000	
Max. Speed	rpm 200000	200 000
Connector ²	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) cable AWG 26 Pin 1 Not connected Pin 2 (black) V _{CC} Pin 3 (brown) GND Pin 4 Not connected Pin 5 (red) Channel Ā Pin 6 (orange) Channel A Pin 7 (yellow) Channel B Pin 8 (green) Channel B Pin 9 (blue) Channel I	without connector 9 10 cable AWG 26 2 green Data black V _{cc} brown GND yellow CLK
	Output signal: EIA-Standard RS 422 Output current per channel: ± 20 mA	Output signal: CMOS compatible Output current per channel + 20 mA

Configuration		EASY Incremental Differential	EASY Absolute
Counts per turn ¹		11024	
Signalprotokoll			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	Sterilization information		Notes
maxon EC motor				
ECX SPEED 19 M	203-206	135°C Typically 1000 autoclave cycles		¹ maxon controllers require a resolution of
ECX SPEED 19 L	207-210	[SSS]		at least 16 counts per turn and commutation signals.
		Sterilization with steam		² H1, index and angle zero are aligned with angle
		Temperature	$+134 \pm 4^{\circ}C$	commutation zero (see p. 56).
		Compression pressure up to	2.3 bar	
		Rel. humidity	100%	
		Cycle length	18 minutes	
		The connector is not sterilizable		
		and needs to be removed first.		
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