ENX 22 EASY INT Encoder Ø22 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 -1.5 (integrated into motor)	-1.5 (integrated into motor)
Ambient temperature	°C -40+125	-40+125
Weight	a <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	EASY Absolute
Supply voltage V _{cc}	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 Ī	without connector cable AWG 26 green Data black V _{cc} brown GND yellow CLK
	Pin 10 (violet) channel I 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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Electric connection				cable length/pin connection/connector
Modular system	Page Ste	rilization information		Notes
EC motor				¹ maxon controllers require a resolution of
ECX SPEED 22 M	225-228 135	Typically 1000 autoclave cycles	S	at least 16 counts per turn and commutation signals.
ECX SPEED 22 L	229-232			² H1, index and angle zero are aligned with angle
ECX TORQUE 22 M	243	Sterilization with steam		commutation zero (see p. 66).
ECX TORQUE 22 L	244	Temperature	+134 ± 4°C	
ECX TORQUE 22 XL	245	Compression pressure up to	2.3 bar	
		Rel. humidity	100%	
		Cycle length	18 minutes	
		The connector is not sterilizable	le	
		and needs to be removed first.		
				Further technical details can be found in the product
				information in the online shop under Downloads.