ENX 19 EASY INT Encoder Ø19 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 -1.4 (integrated into motor)	-1.4 (integrated into motor)
Ambient temperature	°C -40+125	-40+125
Weight	a <5	<5

EASY incremental differential	EASY Absolute	
	•	
	•	
	•	
	EASY incremental differential	EASY incremental differential EASY Absolute

■ 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 200 000	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 Ā Pin 7 (yellow) channel B Pin 8 (green) channel B Pin 9 (blue) channel Ī	without connector 9 10 cable AWG 26 2 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 n	nm 200, 500	200, 500
Electric connection		cable length/pin connection/connector

Cable length	mm	200, 500		200, 500
Electric connection				cable length/pin connection/connector
Modular system	Page	Sterilization information		Notes
EC motor ECX SPEED 19 M	217-220	Typically 1000 autoclave cycles	,	1 maxon controllers require a resolution of
ECX SPEED 19 M	221-224		•	at least 16 counts per turn and commutation signals. ² H1, index and angle zero are aligned with angle commutation zero (see p. 66).
		Sterilization with steam		
	Compression pressure up to Rel. humidity	·		
		2.3 bar 100%		
		18 minutes		
		The connector is not sterilizable and needs to be removed first.	е	
		and needs to be removed first.	1151.	
				Further technical details can be found in the product
				information in the online shop under Downloads.