## **ENX 16 EASY INT** Encoder Ø16 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 (integrated into motor)	-1 (integrated into motor)
Ambient temperature	°C -40+125	-40+125
Weight	n <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 Vcc	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 <sup>2</sup>	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) cable AWG 28  Pin 1 not connected  Pin 2 (black) V <sub>CC</sub> 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  Pin 10 (violet) channel I	without connector  cable AWG 28 green Data black V <sub>cc</sub> 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	<b>EASY incremental differential</b>	EASY Absolute
Counts per turn <sup>1</sup>	11024	
Signalprotokoll		BiSS-C, SSI
Cable length	mm 200, 500	200, 500
Electric connection		cable length/pin connection/connector

Electric conficction				cable length/pin connection/connector
Modular system EC motor	200 010	ilization information		Notes  1 maxon controllers require a resolution of
ECX SPEED 16 M ECX SPEED 16 L	209-212 213-216 SSS		+134 ±4°C 2.3 bar 100% 18 minutes	at least 16 counts per turn and commutation signals. <sup>2</sup> H1, index and angle zero are aligned with angle commutation zero (see p. 66).
				Further technical details can be found in the product information in the online shop under Downloads.