

ENX 16 Absolute

Encoder Ø16 mm, 4096 steps, Single Turn



maxon ENX

Key Data	EASY Absolute	
Steps per turn	4096	
Resolution (bit single turn)	12	
Encoder length L ¹	mm 8.5	
Ambient temperature	°C -40 ... +100	
Weight	g 7	

Selection criteria	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 Absolute	
Supply voltage V _{cc}	V 5 ±0.5	
Typical current draw	mA 17	
Max. Speed	rpm 30000	
Connector	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) Pin 1 Data Pin 2 V _{cc} Pin 3 GND Pin 4 CLK Pin 5 Do not connect (A) Pin 6 Do not connect (A) Pin 7 Do not connect (B) Pin 8 Do not connect (B) Pin 9 Do not connect (I) Pin 10 Do not connect (I) Output signal: CMOS compatible Output current per channel ± 20 mA	

Configuration	EASY Absolute	
Signal protocol	BiSS-C, SSI	
Cable length	mm 50, 100, 150, 200, 300, 500, 1000	
Alignment of cable outlet in relation to motor flange	° 15	

maxon Modular System	Page	Dimensions Standard Version	M 3:4	Notes
maxon DC motor				
DCX 16 S	74–75			Adapter EASY Absolute (Part number 488167) required for all maxon controllers. ¹ For attachment to DCX motors: added 2-4 mm thick intermediate plate. Option: ENX 16 EASY available with single wires, with line driver, -55°C ... +125°C.
DCX 16 L	76–77			
DCX 19 S	78–79			
DCX 22 S	80–81			
DCX 22 L	82–83			
DCX 26 L	84–85			
DCX 32 L	86			
DCX 35 L	87			
DC-max 26 S	94–95			

xdrives.maxonmotor.com