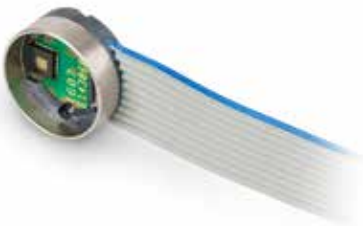


ENX 16 RIO Encoder Ø16 mm, 512...65 536 CPT



ENX

Key data		RIO incremental, optical	
Number of channels		3	
Max. counts per turn		65 536	
Encoder length L ²	mm	70	
Ambient temperature	°C	-40...+100	
Weight	g	15	

Selection criteria		RIO incremental, optical	
Speed and rotation direction detection		■	
Speed and position control		■	
Compact and robust design		■	
High resolution		■	
Cost effective		■	

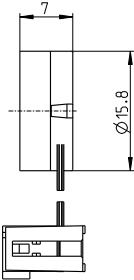
■ suitable ▲ suitable to a limited extent ● not suitable

Specifications		RIO incremental, optical	
Supply voltage V _{cc}	V	5 ±10%	
Typical current draw	mA	50	
Max. operating frequency	kHz	3125	
Max. Speed ¹	rpm	40 000	
Connection		10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651)	
		Pin 1 not connected	
		Pin 2 V _{cc}	
		Pin 3 GND	
		Pin 4 not connected	
		Pin 5 channel A	
		Pin 6 channel A	
		Pin 7 channel B	
		Pin 8 channel B	
		Pin 9 channel I	
		Pin 10 channel I	
		Output signal: EIA-Standard RS 422	
		Output current per channel: ±20 mA	



Variants		for configurable units			for non-configurable units				
Part Number		depending on configuration			575826	575827	575828	575829	575830
Counts per turn		512...65 536 (in steps of 256)			1024	4096	8192	16384	32768
Cable length	mm	50, 100, 150, 200, 300, 500, 1000			300	300	300	300	300
Alignment of cable outlet in relation to motor flange	°	15 (pitch)			0	0	0	0	0

Modular system		Page	Dimensions standard version	M 1:1	Notes
DC motor					
EC motor					
DCX 16 S	105–106	EC-4pole 22	291–292		
DCX 16 L	107–108	EC-4pole 30	293/295		
DCX 19 S	109–110	EC-i 30	302–305		
DCX 22 S	111–112	EC-i 40	306–311		
DCX 22 L	113–114	EC-i 52	312–315		
DCX 26 L	115–116	ECX PRIME 16 M	236		
DCX 32 L	117	ECX PRIME 16 L	237		
DCX 35 L	118	ECX PRIME 22 L	239		



¹ For counts per turn >4096 per turn, the maximum speed is reduced, limited by the maximum count frequency.
² Length given excludes any intermediate plate for mounting on a motor. The effective total length of a motor-encoder combination can be found on the respective dimensional drawing.