

Key data	EMT absolute differential
Multi-turn: max. no. of turns	65536
Multi-turn: resolution bits	16
Single-turn: steps per turns	131072
Single-turn: resolution bits	17
Encoder length L ¹ mm	22.7
Ambient temperature °C	-40+105
Weight g	25

Multi-turn detection
Detection of speed and rotation direction
Speed and position control
Compact and robust design
High resolution
Economical

suitable 🔺 suitable to a limited extent 🔸 not suitable

Specifications		EMT absolute differentia	
Supply voltage Vcc	V	5 ± 0.5	
Typical current draw	mA	90	
Max. speed	rpm	12000	
Data encoding		Binary	
Min. clock frequency CLK	MHz	BiSS-C: 0.08	SSI: 0.3
Max. clock frequency CLK	MHz	BiSS-C: 5	SSI: 1
Timeout	μs	BiSS-C: 18	SSI: 7
Setup time after Power On	S	Max. 0.1	
Moment of inertia of pulse disk	gmm ²	≤ 1.55	
Plug manufacturer JST Plug type no. BM08B-NSHSS -TBT Matching connector type no. NSHR-08V-S		$\begin{array}{llllllllllllllllllllllllllllllllllll$	

Configuration	EMT absolute differential	
Signal protocol	BiSS-C, SSI	

maxon modular system EC motor EC-4pole 22 EC-4pole 30 EC-i 30 EC-i 40 EC-i 52 DC motor DCX 22 S DCX 22 L	283-284 285/287 294-297 298-303 304-305 109-110 111-112	ensions of standard configuration	M1:2 Additional information ¹ The length shown here refers to the encoder. An additional intermediate plate is required for motor mounting. For more detailed information, see the combined dimensional drawing. EC motors: The angle value 0 is calibrated to the commutation phase of coil 1 (equates to Hall signal for motors with Hall sensors, block commutation), s p. 64.
DCX 22 S			
DCX 22 L DCX 26 L DCX 32 L	111-112 113-114 115	25°	Ordering information: For motors that cannot be con figured online, the part numbers 711113 (BiSS-C) an
DCX 35 L	116	-	711112 (SSI) must be used when ordering.

You can find more information in the maxon online shop under downloads.

Connecting cable 300 mm for EPOS4 Aux Enc 708590

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