ENX 16 IMR Encoder ∅16 mm, 128...512 CPT

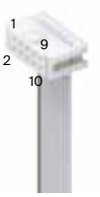
NEW

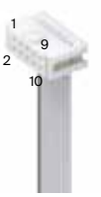
Key data		IMR 2-channel differential	IMR 3-channel differential
Number of channels		2	3
Max. counts per turn		512	512
Encoder length L[1]	mm	6.2...6.8	6.2...6.8
Ambient temperature	°C	-20...+85	-20...+85
Weight	g	7	7

Selection criteria	IMR 2-channel differential	IMR 3-channel differential
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		IMR 2-channel differential	IMR 3-channel differential
Supply voltage V_{CC}	V	5 ±0.5	5 ±0.5
Typical current draw	mA	10	13
Max. operating frequency	kHz	320	320
Max. Speed	rpm	37500	37500
Connector		10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651)	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651)
		Pin 1 Motor +	Pin 1 Motor +
		Pin 2 V_{CC}	Pin 2 V_{CC}
		Pin 3 GND	Pin 3 GND
		Pin 4 Motor –	Pin 4 Motor –
		Pin 5 channel $\overline{A}$	Pin 5 channel $\overline{A}$
		Pin 6 channel A	Pin 6 channel A
		Pin 7 channel $\overline{B}$	Pin 7 channel $\overline{B}$
		Pin 8 channel B	Pin 8 channel B
		Pin 9 not connected	Pin 9 channel $\overline{I}$
		Pin 10 not connected	Pin 10 channel I
		Output signal: EIA-Standard RS 422	Output signal: EIA-Standard RS 422
		Output current per channel: ±20 mA	Output current per channel: ±20 mA

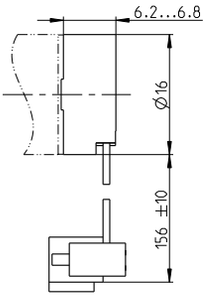




Variants		IMR 2-channel differential			IMR 3-channel differential		
Part Number		870682	870685	870686	870688	870690	870691
Counts per turn		128	256	512	128	256	512
Cable length	mm	156	156	156	156	156	156

modular system	Page
DC motor	
DC-max 16[2]	121–122
RE 16	151–155
A-max 16	171–174

Dimensions standard version M 1:1



Notes

[1]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.

[2]Can be ordered with DC-max as configurable units. Resolution and cable length can be configured.

Maximum permissible cable/plug continuous current: 1.2 A.

Further technical details can be found in the product information in the online shop under Downloads.

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