

Key data		IMR 3-channel differential	
Number of channels		3	
Max. counts per turn		1000	
Encoder length L1	mm	8.5	
Ambient temperature	°C	-20+85	
Weight	g	10	

Selection criteria	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   ot	suitable	

Specifications	IMR 3-channel differential
Supply voltage V <sub>CC</sub> V	5 ±0.5
Typical current draw mA	13
Max. operating frequency kHz	400
Max. Speed rpm	24000
Connector	10-pin 2.54 mm multipoint connector (IEC/EN 60603-13 / DIN41651) Pin 1 not connected Pin 2 $V_{\rm CC}$ Pin 3 GND 1 Pin 4 not connected Pin 5 channel $\overline{\rm A}$ Pin 6 channel $\overline{\rm A}$ Pin 7 channel $\overline{\rm B}$ Pin 8 channel $\overline{\rm B}$ Pin 9 channel $\overline{\rm I}$ Pin 10 channel I Output signal: EIA-Standard RS 422 Output current per channel: $\pm 20$ mA

Variants	IMR 3-ch	annel diffe	rential		
Part Number	870712	870713	870715	870714	870716
Counts per turn	128	256	500	512	1000
Cable length mm	506	506	506	506	506

modular system	Page D	mensions standard version	M 1:2 Notes
DC motor			<sup>1</sup> Length given excludes any intermediate plate for
RE 25	156-158		mounting on a motor. The effective total length of
A-max 26	183-186	0.5	a motor-encoder combination can be found on the
		8.5	respective dimensional drawing.
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			Further technical details can be found in the product
			information in the online shop under Downloads.
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