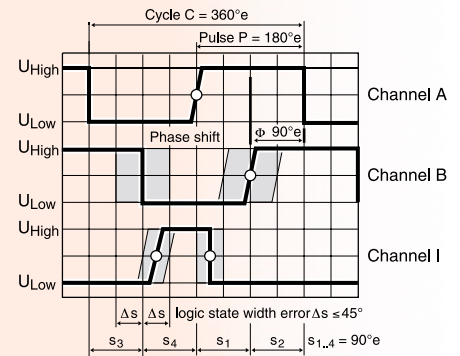


Digital MR Encoder with Line Driver 5 mA, Type M



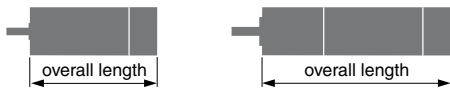
maxon tachometer

- Stock program
- Standard program
- Special program (on request!)

Order Number

228179	228177	228181	228182	201937	201940
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Type	Counts per turn	128	128	256	256	512	512
Number of channels	2	3	2	3	2	3	3
Max. operating frequency (kHz)	80	80	160	160	320	320	320



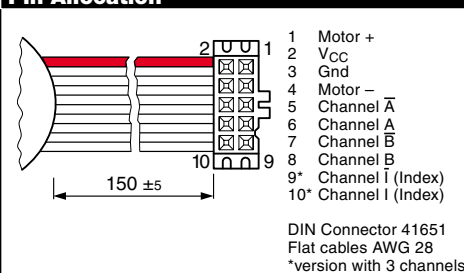
Combination

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm]	/	• see:	+ Gearhead
RE 16, 3.2 W	73					45.4	45.4	45.4	45.4
RE 16, 3.2 W	73	GP 16, 0.1 - 0.3 Nm	185			•	•	•	•
RE 16, 3.2 W	73	GP 16, 0.06 - 0.18 Nm	186			•	•	•	•
RE 16, 4.5 W	75					48.4	48.4	48.4	48.4
RE 16, 4.5 W	75	GP 16, 0.1 - 0.3 Nm	185			•	•	•	•
RE 16, 4.5 W	75	GP 16, 0.06 - 0.18 Nm	186			•	•	•	•
A-max 16	102/104					30.4	30.4	30.4	30.4
A-max 16	102/104	GS 16, 0.015 Nm	181			•	•	•	•
A-max 16	102/104	GS 16, 0.01 - 0.1 Nm	182-184			•	•	•	•
A-max 16	102/104	GP 16, 0.1 - 0.3 Nm	185			•	•	•	•
A-max 16	102/104	GP 16, 0.06 - 0.18 Nm	186			•	•	•	•
A-max 19	106					34.0	34.0	34.0	34.0
A-max 19	106	GP 19, 0.1 - 0.3 Nm	187			•	•	•	•
A-max 19	106	GP 22, 0.5 - 2.0 Nm	190/191			•	•	•	•
A-max 19	106	GS 24, 0.1 Nm	192			•	•	•	•
A-max 19	108					35.8	35.8	35.8	35.8
A-max 19	108	GP 19, 0.1 - 0.3 Nm	187			•	•	•	•
A-max 19	108	GP 22, 0.5 - 2.0 Nm	190/191			•	•	•	•
A-max 19	108	GS 24, 0.1 Nm	192			•	•	•	•
A-max 22	110/112					36.9	36.9	36.9	36.9
A-max 22	110/112	GP 22, 0.1 - 0.6 Nm	188/189			•	•	•	•
A-max 22	110/112	GP 22, 0.5 - 2.0 Nm	190/191			•	•	•	•
A-max 22	110/112	GS 24, 0.1 Nm	192			•	•	•	•
RE-max 17	132/134					30.4	30.4	30.4	30.4
RE-max 17	132/134	GP 16, 0.1 - 0.3 Nm	185			•	•	•	•
RE-max 17	132/134	GP 16, 0.06 - 0.18 Nm	186			•	•	•	•
RE-max 21	136					34.0	34.0	34.0	34.0
RE-max 21	136	GP 22, 0.5 - 2.0 Nm	190/191			•	•	•	•
RE-max 21	136	GS 38, 0.1 - 0.6 Nm	200			•	•	•	•
RE-max 21	138					35.8	35.8	35.8	35.8
RE-max 21	138	GP 22, 0.5 - 2.0 Nm	190/191			•	•	•	•
RE-max 21	138	GS 38, 0.1 - 0.6 Nm	200			•	•	•	•
RE-max 24	140/142					36.9	36.9	36.9	36.9
RE-max 24	140/142	GP 22, 0.5 - 2.0 Nm	191			•	•	•	•
RE-max 24	140/142	GS 38, 0.1 - 0.6 Nm	200			•	•	•	•

Technical Data

Supply voltage V _{CC}	5 V ± 5 %
Output signal	TTL compatible
Index pulse width (nominal)	90°e
Operating temperature range	-25 ... +85°C
Moment of inertia of code wheel	≤ 0.09 gcm ²
Output current per channel	max. 5 mA

Pin Allocation



Connection Example

