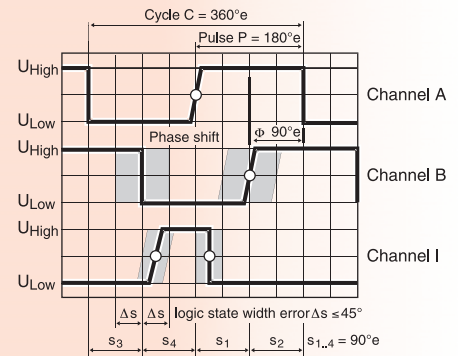


Encoder MR, Type M, 128 - 512 CPT, 2 / 3 Channels, with Line Driver



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

Order Number

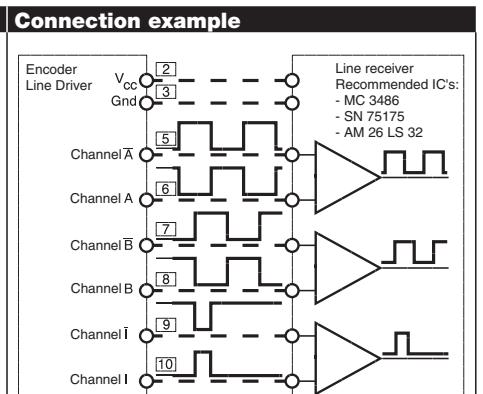
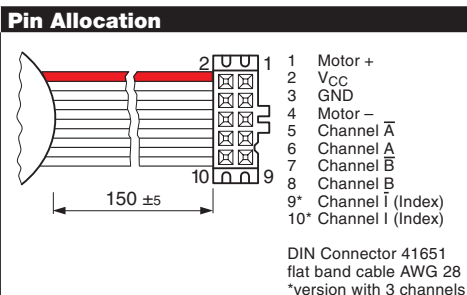
228179	228177	228181	228182	201937	201940
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Type	128	128	256	256	512	512
Counts per turn	128	128	256	256	512	512
Number of channels	2	3	2	3	2	3
Max. operating frequency (kHz)	80	80	160	160	320	320



Combination	Page	Page	Page	Page	Overall length [mm] / see: + Gearhead						
+ Motor RE 16, 3.2 W	74	+ Gearhead GP 16, 0.06 - 0.18 Nm	212	+ Brake		45.4	45.4	45.4	45.4	45.4	45.4
RE 16, 3.2 W	74	GP 16, 0.1 - 0.3 Nm	213			•	•	•	•	•	•
RE 16, 4.5 W	76					48.4	48.4	48.4	48.4	48.4	48.4
RE 16, 4.5 W	76	GP 16, 0.06 - 0.18 Nm	212			•	•	•	•	•	•
RE 16, 4.5 W	76	GP 16, 0.1 - 0.3 Nm	213			•	•	•	•	•	•
A-max 16	102/104					30.4	30.4	30.4	30.4	30.4	30.4
A-max 16	102/104	GS 16, 0.01 - 0.1 Nm	209-211			•	•	•	•	•	•
A-max 16	102/104	GP 16, 0.06 - 0.18 Nm	212			•	•	•	•	•	•
A-max 16	102/104	GP 16, 0.1 - 0.3 Nm	213			•	•	•	•	•	•
A-max 19, 1.5 W	106					34.0	34.0	34.0	34.0	34.0	34.0
A-max 19, 1.5 W	106	GP 19, 0.1 - 0.3 Nm	215			•	•	•	•	•	•
A-max 19, 1.5 W	106	GS 20 0.06 - 0.25 Nm	216			•	•	•	•	•	•
A-max 19, 1.5 W	106	GP 22, 0.5 - 2.0 Nm	219/220			•	•	•	•	•	•
A-max 19, 1.5 W	106	GS 24, 0.1 Nm	223			•	•	•	•	•	•
A-max 19, 2.5 W	108					35.8	35.8	35.8	35.8	35.8	35.8
A-max 19, 2.5 W	108	GP 19, 0.1 - 0.3 Nm	215			•	•	•	•	•	•
A-max 19, 2.5 W	108	GS 20 0.06 - 0.25 Nm	216			•	•	•	•	•	•
A-max 19, 2.5 W	108	GP 22, 0.5 - 2.0 Nm	219/220			•	•	•	•	•	•
A-max 19, 2.5 W	108	GS 24, 0.1 Nm	223			•	•	•	•	•	•
A-max 22	110/112					36.9	36.9	36.9	36.9	36.9	36.9
A-max 22	110/112	GP 22, 0.1 - 0.6 Nm	217/218			•	•	•	•	•	•
A-max 22	110/112	GP 22, 0.5 - 2.0 Nm	219/220			•	•	•	•	•	•
A-max 22	110/112	GS 24, 0.1 Nm	223			•	•	•	•	•	•
RE-max 17	132/134					30.4	30.4	30.4	30.4	30.4	30.4
RE-max 17	132/134	GP 16, 0.06 - 0.18 Nm	212			•	•	•	•	•	•
RE-max 17	132/134	GP 16, 0.1 - 0.3 Nm	213			•	•	•	•	•	•
RE-max 21, 3.5 W	136					34.0	34.0	34.0	34.0	34.0	34.0
RE-max 21, 3.5 W	136	GP 22, 0.5 - 2.0 Nm	219/220			•	•	•	•	•	•
RE-max 21, 3.5 W	136	GS 38, 0.1 - 0.6 Nm	231			•	•	•	•	•	•
RE-max 21, 6 W	138					35.8	35.8	35.8	35.8	35.8	35.8
RE-max 21, 6 W	138	GP 22, 0.5 - 2.0 Nm	219/220			•	•	•	•	•	•
RE-max 21, 6 W	138	GS 38, 0.1 - 0.6 Nm	231			•	•	•	•	•	•
RE-max 24	140/142					36.9	36.9	36.9	36.9	36.9	36.9
RE-max 24	140/142	GP 22, 0.5 - 2.0 Nm	220			•	•	•	•	•	•
RE-max 24	140/142	GS 38, 0.1 - 0.6 Nm	231			•	•	•	•	•	•

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



Attention: The index signal I is synchronised with channel A or B.