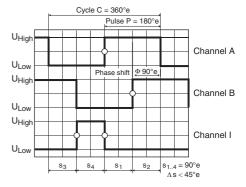
## Encoder MR Type M, 128-512 CPT, 2/3 Channels, with Line Driver





Direction of rotation cw (definition cw p. 150)

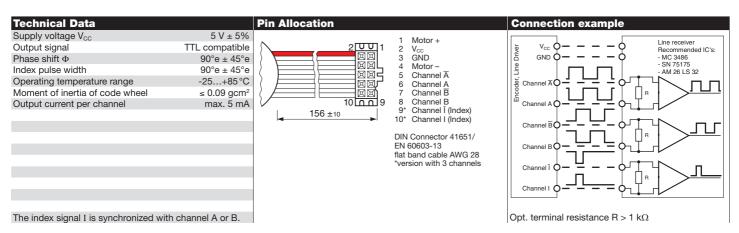
Standard program	Part Numbers							
Special program (on request)	228179	228177	228181	228182	201937	201940		
Туре								
Counts per turn	128	128	256	256	512	512		
Number of channels	2	3	2	3	2	3		
Max. operating frequency (kHz)	80	80	160	160	320	320		
Max. speed (rpm)	37500	37500	37500	37500	37500	37500		





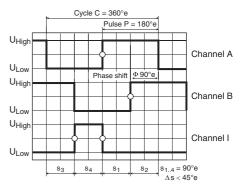


maxon Modula	ar Syste	e <b>m</b>									
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead					
RE 16, 2 W	174					28.0	28.0	28.0	28.0	28.0	28.0
RE 16, 2 W	174	GP 16, 0.1 - 0.6 Nm	323/324			•	•	•	•	•	•
RE 16, 2 W	174	GP 16 S	365/366	5		•	•	•	•	•	•
RE 16, 3.2 W	176					45.4	45.4	45.4	45.4	45.4	45.4
RE 16, 3.2 W	176	GP 16, 0.1 - 0.6 Nm	323/324			•	•	•	•	•	•
RE 16, 3.2 W	176	GP 16 S	365/366	5		•	•	•	•	•	•
RE 16, 4.5 W	178					48.4	48.4	48.4	48.4	48.4	48.4
RE 16, 4.5 W	178	GP 16, 0.1 - 0.6 Nm	323/324			•	•	•	•	•	•
RE 16, 4.5 W	178	GP 16 S	365/366	5		•	•	•	•	•	•
A-max 16	194/19	6				30.4	30.4	30.4	30.4	30.4	30.4
A-max 16	194/19	6 GS 16, 0.01 - 0.1 Nm	319-322	2		•	•	•	•	•	•
A-max 16	194/19	6 GP 16, 0.1 - 0.6 Nm	323/324			•	•	•	•	•	•
A-max 16	194/19	6 GP 16 S	365/366	5		•	•	•	•	•	•
A-max 19, 1.5 W	198					34.0	34.0	34.0	34.0	34.0	34.0
A-max 19, 1.5 W	198	GP 19, 0.1 - 0.3 Nm	325			•	•	•	•	•	•
A-max 19, 1.5 W	198	GP 22, 0.5 - 2.0 Nm	329/331			•	•	•	•	•	•
A-max 19, 1.5 W	198	GS 24, 0.1 Nm	335			•	•	•	•	•	•
A-max 19, 1.5 W	198	GP 22 S	368/369	)		•	•	•	•	•	•
A-max 19, 2.5 W	200					35.8	35.8	35.8	35.8	35.8	35.8
A-max 19, 2.5 W	200	GP 19, 0.1 - 0.3 Nm	325			•	•	•	•	•	•
A-max 19, 2.5 W	200	GS 20 0.06 - 0.25 Nm	326			•	•	•	•	•	•
A-max 19, 2.5 W	200	GP 22, 0.5 - 2.0 Nm	329/331			•	•	•	•	•	•
A-max 19, 2.5 W	200	GS 24, 0.1 Nm	335			•	•	•	•	•	•
A-max 19, 2.5 W	200	GP 22 S	368/369	)		•	•	•	•	•	•
A-max 22	202/20	4				36.9	36.9	36.9	36.9	36.9	36.9
A-max 22	202/20	4 GP 22, 0.1 - 0.6 Nm	327/328	3		•	•	•	•	•	•
A-max 22	202/20	4 GP 22, 0.5 - 2.0 Nm	329/331			•	•	•	•	•	•
A-max 22	202/20	4 GS 24, 0.1 Nm	335			•	•	•	•	•	•
A-max 22		4 GP 22 S	368/369			•	•	•	•	•	•



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

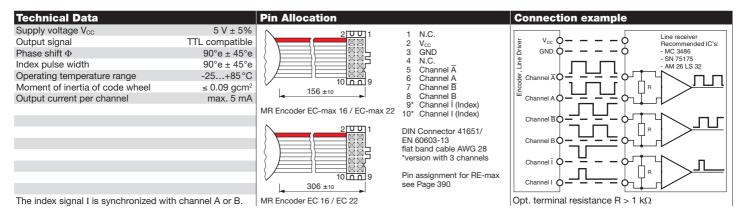




Direction of rotation cw (definition cw p. 150)

				`	. ,			
Stock program Standard program	Part Numbers							
Special program (on request)	228179	228177	228181	228182	201937	201940		
Туре								
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		
Max. speed (rpm)	37500	37500	37500	37500	37500	37500		

+ Motor	Page	+ Gearhead	Page + Brake	Page	Overall length [mm] / • see Gearhead							
RE-max 21, 3.5 W	224			19 -	34.0	34.0	34.0	34.0	34.0	34.0		
RE-max 21, 3.5 W	224	GP 22, 0.5 - 2.0 Nm	329/331		0 1.0	•	•	0 1.0	•	0 1.0		
RE-max 21, 3.5 W	224	GS 38. 0.1 - 0.6 Nm	348			•	•	•	•			
RE-max 21, 3.5 W	224	GP 22 S	368/369			•	•		•			
RE-max 21, 6 W	226	GI EE O	000/000		35.8	35.8	35.8	35.8	35.8	35.8		
RE-max 21, 6 W	226	GP 22, 0.5 - 2.0 Nm	329/331		•	•	•	•	•	•		
RE-max 21, 6 W	226	GS 38, 0.1 - 0.6 Nm	348		•	•	•	•	•	•		
RE-max 21, 6 W	226	GP 22 S	368/369			•	•	•	•	•		
EC 16. 30 W	244				50.7	50.7	50.7	50.7	50.7	50.7		
EC 16, 30 W	244	GP 16. 0.1 - 0.6 Nm	323/324		•	•	•	•	•	•		
EC 16, 30 W	244	GP 22, 0.5 - 1.0 Nm	329		•	•	•	•	•	•		
EC 16, 30 W	244	GP 16 S	365/366		•	•	•	•	•			
EC 16, 60 W	245				66.7	66.7	66.7	66.7	66.7	66.7		
EC 16, 60 W	245	GP 16, 0.2 - 0.6 Nm	324		•	•	•	•	•	•		
EC 16, 60 W	245	GP 22, 0.5 - 2.0 Nm	329/332		•	•	•	•	•	•		
EC 16. 60 W	245	GP 16 S/GP 22 S	365/369		•	•	•	•	•	•		
EC 22, 40 W	246				50.5	50.5	50.5	50.5	50.5	50.5		
EC 22, 40 W	246	GP 22, 0.5 - 3.4 Nm	332/333		•	•	•	•	•	•		
EC 22, 40 W	246	GP 22 S	368/369		•	•	•	•	•	•		
EC 22, 100 W	247				68.7	68.7	68.7	68.7	68.7	68.7		
EC 22, 100 W	247	GP 22, 0.5 - 3.4 Nm	332/333		•	•	•	•	•	•		
EC 22, 100 W	247	GP 22 S	368/369		•	•	•	•	•	•		
EC-max 16, 5 W	259				31.3	31.3	31.3	31.3	31.3	31.3		
EC-max 16, 5 W	259	GP 16, 0.1 - 0.6 Nm	323/324		•	•	•	•	•	•		
EC-max 16, 5 W	259	GP 16 S	365/366		•	•	•	•	•	•		
EC-max 16, 8 W	261				43.3	43.3	43.3	43.3	43.3	43.3		
EC-max 16, 8 W	261	GP 16, 0.2 - 0.6 Nm	324		•	•	•	•	•	•		
EC-max 16, 8 W	261	GP 22, 0.5 - 2.0 Nm	332		•	•	•	•	•	•		
EC-max 16, 8 W	261	GP 16 S/GP 22 S	365/369		•	•	•	•	•	•		
EC-max 22, 12 W	262				41.7	41.7	41.7	41.7	41.7	41.7		
EC-max 22, 12 W	262	GP 22, 0.5 - 2.0 Nm	332/333		•	•	•	•	•	•		
EC-max 22, 12 W	262	KD 32, 1.0 - 4.5 Nm	347		•	•	•	•	•	•		
EC-max 22, 12 W	262	GP 22 S	368/369		•	•	•	•	•	•		
EC-max 22, 25 W	263				58.2	58.2	58.2	58.2	58.2	58.2		
EC-max 22, 25 W	263	GP 22/GP 32	333/343		•	•	•	•	•	•		
EC-max 22, 25 W	263	GP 32 S	370-372		•	•	•	•	•	•		



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