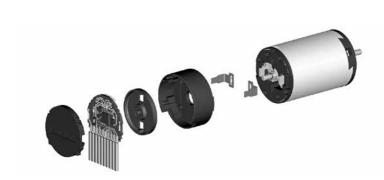
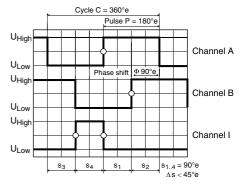
## Encoder MR Type M, 128-512 CPT, 2/3 Channels, with Line Driver





Direction of rotation cw (definition cw p. 60)

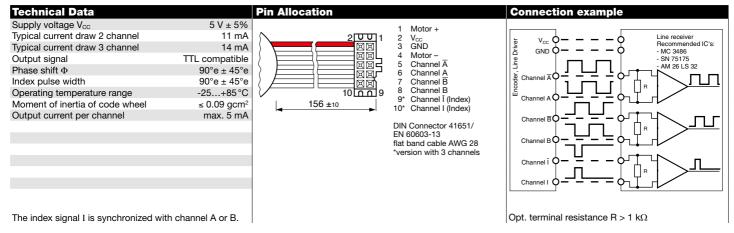
Stock program Standard program	Part Numbers							
Special program (on request)	228179	228177	228181	228182	201937	201940		
Туре								
Counts per turn	128	128	256	256	512	512		
Number of channels	2	3	2	3	2	3		
Max. operating frequency (kHz)	80	80	160	160	320	320		
Max_speed (rpm)	37500	37500	37500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







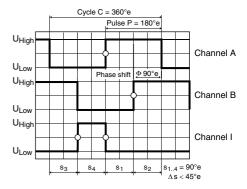
+ Motor	Page	+ Gearhead	Page	Ø Enc [mm]	Overall length [mm] / • see Gearhead					
RE 16, 2 W	120			16	28.0	28.0	28.0	28.0	28.0	28.0
RE 16, 2 W	120	GP 16, 0.1 - 0.6 Nm	328/329	16	•	•	•	•	•	•
RE 16, 2 W	120	GP 16 S	369/370	16	•	•	•	•	•	•
RE 16, 3.2 W	122			16	45.4	45.4	45.4	45.4	45.4	45.4
RE 16, 3.2 W	122	GP 16, 0.1 - 0.6 Nm	328/329	16	•	•	•	•	•	•
RE 16, 3.2 W	122	GP 16 S	369/370	16	•	•	•	•	•	•
RE 16, 4.5 W	124			16	48.4	48.4	48.4	48.4	48.4	48.4
RE 16, 4.5 W	124	GP 16, 0.1 - 0.6 Nm	328/329	16	•	•	•	•	•	•
RE 16, 4.5 W	124	GP 16 S	369/370	16	•	•	•	•	•	•
A-max 16	140/14	2		16	30.4	30.4	30.4	30.4	30.4	30.4
A-max 16	140/14	2 GS 16, 0.01 - 0.1 Nm	324-327	16	•	•	•	•	•	•
A-max 16	140/14	2 GP 16, 0.1 - 0.6 Nm	328/329	16	•	•	•	•	•	•
A-max 16	140/14	2 GP 16 S	369/370	16	•	•	•	•	•	•
A-max 19, 1.5 W	144			19	34.0	34.0	34.0	34.0	34.0	34.0
A-max 19, 1.5 W	144	GP 19, 0.1 - 0.3 Nm	330	19	•	•	•	•	•	•
A-max 19, 1.5 W	144	GP 22, 0.5 - 2.0 Nm	333/335	19	•	•	•	•	•	•
A-max 19, 1.5 W	144	GS 24, 0.1 Nm	339	19	•	•	•	•	•	•
A-max 19, 1.5 W	144	GP 22 S	372/373	19	•	•	•	•	•	•
A-max 19, 2.5 W	146			19	35.8	35.8	35.8	35.8	35.8	35.8
A-max 19, 2.5 W	146	GP 19, 0.1 - 0.3 Nm	330	19	•	•	•	•	•	•
A-max 19, 2.5 W	146	GP 22, 0.5 - 2.0 Nm	333/335	19	•	•	•	•	•	•
A-max 19, 2.5 W	146	GS 24, 0.1 Nm	339	19	•	•	•	•	•	•
A-max 19, 2.5 W	146	GP 22 S	372/373	19	•	•	•	•	•	•
A-max 22	148/15	0		22	36.9	36.9	36.9	36.9	36.9	36.9
A-max 22	148/15	0 GP 22, 0.1 - 0.6 Nm	331/332	22	•	•	•	•	•	•
A-max 22		0 GP 22, 0.5 - 2.0 Nm	333/335	22	•	•	•	•	•	•
A-max 22	148/15	0 GS 24, 0.1 Nm	339	22	•	•	•	•	•	•
A-max 22	1 40/1E	0 GP 22 S	372/373	22	•	•	•	•	•	_



June 2018 edition / subject to change maxon sensor 417

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





Direction of rotation cw (definition cw p. 60

	Direction of rotation cw (definition cw p. 60)							
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	37.500	37500	37500	37.500		

maxon Modula	ar Syste	em								
+ Motor	Page	+ Gearhead	Page	Ø Enc [mm]	Overall length [mm] / • see Gearhead					
EC-max 16, 5 W	219			16	31.3	31.3	31.3	31.3	31.3	31.3
EC-max 16, 5 W	219	GP 16, 0.1 - 0.6 Nm	328/329	16	•	•	•	•	•	•
EC-max 16, 5 W	219	GP 16 S	369/370	16	•	•	•	•	•	•
EC-max 16, 8 W	221			16	43.3	43.3	43.3	43.3	43.3	43.3
EC-max 16, 8 W	221	GP 16, 0.2 - 0.6 Nm	329	16	•	•	•	•	•	•
EC-max 16, 8 W	221	GP 22, 0.5 - 2.0 Nm	336	16	•	•	•	•	•	•
EC-max 16, 8 W	221	GP 16 S/GP 22 S	369/373	16	•	•	•	•	•	•
EC-max 22, 12 W	222			16	41.7	41.7	41.7	41.7	41.7	41.7
EC-max 22, 12 W	222	GP 22, 0.5 - 2.0 Nm	336/337	16	•	•	•	•	•	•
EC-max 22, 12 W		KD 32, 1.0 - 4.5 Nm	352	16	•	•	•	•	•	•
EC-max 22, 12 W	222	GP 22 S	372/373	16	•	•	•	•	•	•
EC-max 22, 25 W				16	58.2	58.2	58.2	58.2	58.2	58.2
EC-max 22, 25 W	223	GP 22/GP 32	337/347	16	•	•	•	•	•	•
EC-max 22, 25 W	223	GP 32 S	374-379	16	•	•	•	•	•	•

