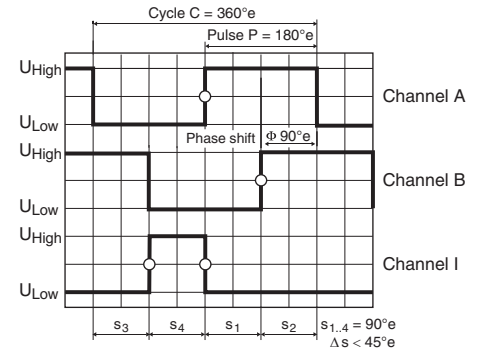


# Encoder MR Type ML, 128–1000 CPT, 3 Channels, with Line Driver



Direction of rotation cw (definition cw p. 78)

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

## Part Numbers

225771    225773    225778    225805    225780

Type					
Counts per turn	128	256	500	512	1000
Number of channels	3	3	3	3	3
Max. operating frequency (kHz)	80	160	200	320	200
Max. speed (rpm)	37500	37500	24000	37500	12000



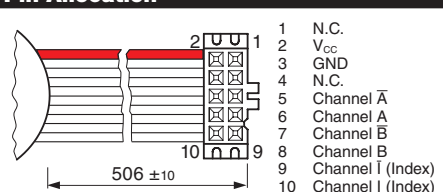
## maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead				
RE 25	107/109					65.5	65.5	65.5	65.5	65.5
RE 25	107/109	GP 26, 0.75 - 2.0 Nm	270			•	•	•	•	•
RE 25	107/109	GP 32, 0.75 - 6.0 Nm	272-277			•	•	•	•	•
RE 25	107/109	KD 32, 1.0 - 4.5 Nm	281			•	•	•	•	•
RE 25	107/109	GP 32 S	301-303			•	•	•	•	•
RE 25, 20 W	108					54.0	54.0	54.0	54.0	54.0
RE 25, 20 W	108	GP 22, 0.5 Nm	262			•	•	•	•	•
RE 25, 20 W	108	GP 26, 0.75 - 2.0 Nm	270			•	•	•	•	•
RE 25, 20 W	108	GP 32, 0.75 - 6.0 Nm	272-277			•	•	•	•	•
RE 25, 20 W	108	KD 32, 1.0 - 4.5 Nm	281			•	•	•	•	•
RE 25, 20 W	108	GP 32 S	301-303			•	•	•	•	•
A-max 26	134-140					53.5	53.5	53.5	53.5	53.5
A-max 26	134-140	GP 26, 0.75 - 4.5 Nm	270			•	•	•	•	•
A-max 26	134-140	GS 30, 0.07 - 0.2 Nm	271			•	•	•	•	•
A-max 26	134-140	GP 32, 0.75 - 6.0 Nm	272-277			•	•	•	•	•
A-max 26	134-140	GS 38, 0.1 - 0.6 Nm	282			•	•	•	•	•
A-max 26	134-140	GP 32 S	301-303			•	•	•	•	•
RE-max 29	163-166					53.5	53.5	53.5	53.5	53.5
RE-max 29	163-166	GP 32, 0.75 - 6.0 Nm	273-277			•	•	•	•	•
RE-max 29	163-166	GP 32 S	301-303			•	•	•	•	•
EC-max 30, 40 W	204							54.2		54.2
EC-max 30, 40 W	204	GP 32, 1 - 8.0 Nm	277/279					•		•
EC-max 30, 40 W	204	KD 32, 1.0 - 4.5 Nm	281					•		•
EC-max 30, 40 W	204	GP 32 S	301-303					•		•
EC-max 30, 60 W	205							76.2		76.2
EC-max 30, 60 W	205	GP 32, 1 - 8.0 Nm	277/279					•		•
EC-max 30, 60 W	205	KD 32, 1.0 - 4.5 Nm	281					•		•
EC-max 30, 60 W	205	GP 42, 3 - 15 Nm	284					•		•
EC-4pole 30	213							59.2		59.2
EC-4pole 30	213	GP 32, 4.0 - 8.0 Nm	279					•		•
EC-4pole 30	213	GP 42, 3 - 15 Nm	284					•		•
EC-4pole 30	214							76.2		76.2
EC-4pole 30	214	GP 32, 4.0 - 8.0 Nm	279					•		•
EC-4pole 30	214	GP 42, 3 - 15 Nm	284					•		•

## Technical Data

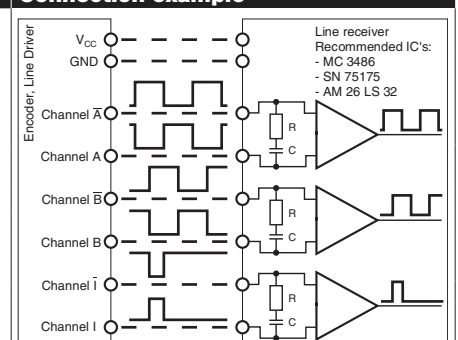
Supply voltage $V_{CC}$	5 V $\pm$ 5%
Output signal	TTL compatible
Phase shift $\Phi$	90°e $\pm$ 45°e
Index pulse width	90°e $\pm$ 45°e
Operating temperature range	-25...+85 °C
Moment of inertia of code wheel	$\leq 0.7$ gcm <sup>2</sup>
Output current per channel	max. 5 mA

## Pin Allocation



DIN Connector 41651/  
EN 60603-13  
flat band cable AWG 28

## Connection example



Terminal resistance  $R$  = typical 120  $\Omega$   
Capacitor  $C \geq 0.1$  nF per m line length