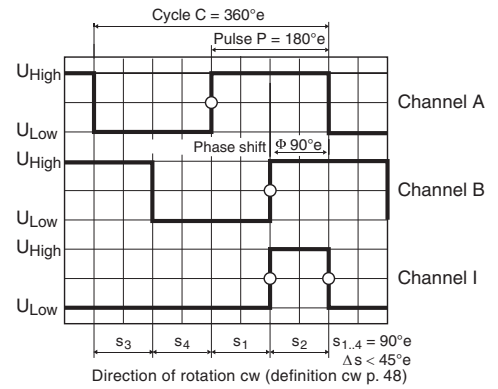


# Encoder MILE, 64 Counts per turn, 3 Channels, with Line Driver



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

## Order Number

361545

Type	
Counts per turn	64
Number of channels	3
Max. operating frequency (kHz)	107
Max. speed (rpm)	100000



## maxon Modular System

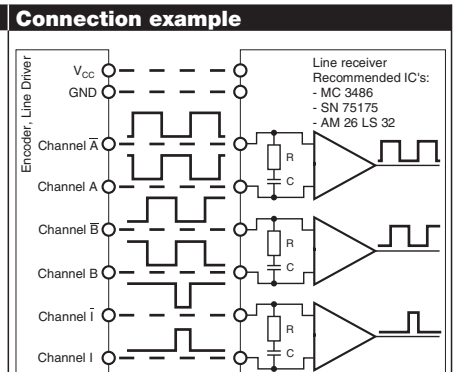
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
EC 6, 1.2 W	138					21.7
EC 6, 1.2 W	138	GP 6, 0.002-0.03 Nm	202			•

Technical Data	
Supply voltage $V_{CC}$	5 V $\pm$ 10 %
Output signal	CMOS and TTL compatible
Phase shift $\Phi$	90°e $\pm$ 45°e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 1$ k $\Omega$ , 25°C)	10 ns
Signal fall time (typically, at $C_L = 25$ pF, $R_L = 1$ k $\Omega$ , 25°C)	10 ns
Index pulse width (nominal)	90°e
Operating temperature rang	-20 ... +100°C
Moment of inertia of code wheel	$\leq 0.006$ gcm <sup>2</sup>
Output current per channel	max. 4 mA

### Pin Allocation

- 1  $V_{CC}$
- 2 Channel A
- 3 Channel A
- 4 Channel B
- 5 Channel B
- 6 Channel I
- 7 Channel I
- 8 Commutation 1
- 9 Commutation 2
- 10 Commutation 3
- 11 GND
- 12 Motor winding 1
- 13 Motor winding 2
- 14 Motor winding 3

Note: Pull-down resistors on the encoder outputs are not permitted.  
Pull-up resistors are permitted, but not required.



The index signal I is synchronised with channel A or B.  
254 maxon sensor

Terminal resistance  $R =$  typical 120  $\Omega$   
Capacitor  $C \geq 0.1$  nF per m line length  
May 2010 edition / subject to change