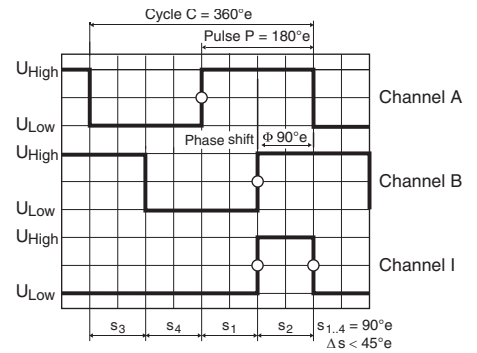


Encoder MILE 64 Counts per turn, 3 Channels, with Line Driver



Direction of rotation cw (definition cw p. 70)

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

Part Numbers

361545

Type

Counts per turn	64
Number of channels	3
Max. operating frequency (kHz)	107
Max. speed (rpm)	100 000



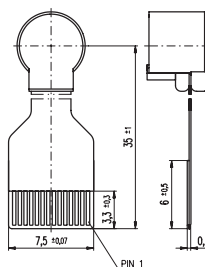
maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead
EC 6, 1.2 W	162					21.7
EC 6, 1.2 W	162	GP 6, 0.002-0.03 Nm	230			●

Technical Data

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

Pin Allocation



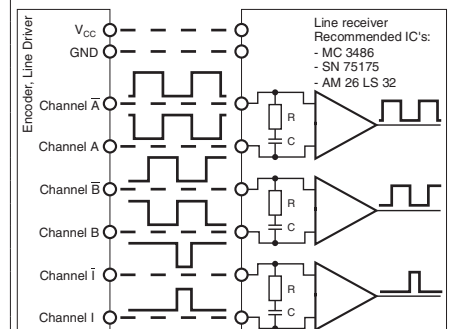
- 1 V_{CC}
- 2 Channel A
- 3 Channel \bar{A}
- 4 Channel B
- 5 Channel \bar{B}
- 6 Channel I
- 7 Channel \bar{I}
- 8 Commutation H1
- 9 Commutation H2
- 10 Commutation H3
- 11 GND
- 12 Motor winding 1
- 13 Motor winding 2
- 14 Motor winding 3

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

Compatible connector: Molex 0527451497 / Tyco 1-1734839-4
Adapter print EC 6 MILE encoder to terminal strip and DIN 41651
adapter order no. 397973

Pitch 0.5 mm, top contact style.

Connection example



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

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