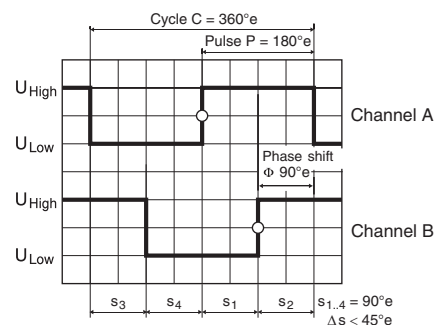


Encoder MR Type S, 64–256 CPT, 2 Channels, with Line Driver



Direction of rotation cw (definition cw p. 70)

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

Part Numbers

323049 323050 334910 323051 323052 323053 323054

Type	323049	323050	334910	323051	323052	323053	323054
Counts per turn	64	64	100	128	128	256	256
Number of channels	2	2	2	2	2	2	2
Max. operating frequency (kHz)	80	80	100	160	160	320	320
Max. speed (rpm)	75000	75000	60000	75000	75000	75000	75000



maxon Modular System

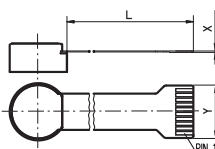
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead
RE 8, 0.5 W	73					22.6
RE 8, 0.5 W	73	GP 8, 0.01 - 0.1	231			●
RE 8, 0.5 W	73	GP 8 S	279–280			●
RE 10, 0.75 W	75					22.8
RE 10, 0.75 W	75	GP 10, 0.005 - 0.15 Nm	232/233			●
RE 10, 1.5 W	77					30.4
RE 10, 1.5 W	77	GP 10, 0.005 - 0.15 Nm	232/233			●
RE 13, 0.75 W	80					26.3
RE 13, 0.75 W	81					28.7
RE 13, 0.75 W	81	GP 13, 0.05 - 0.15 Nm	235			●
RE 13, 0.75 W	81	GP 13, 0.2 - 0.35 Nm	236			●
RE 13, 2 W	84					38.5
RE 13, 2 W	85					40.9
RE 13, 2 W	85	GP 13, 0.05 - 0.15 Nm	235			●
RE 13, 2 W	85	GP 13, 0.2 - 0.35 Nm	236			●
RE 13, 1.5 W	88					28.4
RE 13, 1.5 W	89					30.8
RE 13, 1.5 W	89	GP 13, 0.05 - 0.15 Nm	235			●
RE 13, 1.5 W	89	GP 13, 0.2 - 0.35 Nm	236			●
RE 13, 3 W	92					40.6
RE 13, 3 W	93					43.0
RE 13, 3 W	93	GP 13, 0.05 - 0.15 Nm	235			●
RE 13, 3 W	93	GP 13, 0.2 - 0.35 Nm	236			●
A-max 12, 0.5 W	112					25.3
A-max 12, 0.5 W	112	GP 10, 0.01 - 0.15 Nm	233			●
A-max 12, 0.5 W	112	GS 12, 0.01 - 0.03 Nm	234			●
A-max 12, 0.5 W	112	GP 13, 0.05 - 0.15 Nm	235			●
A-max 12, 0.5 W	112	GP 13, 0.2 - 0.35 Nm	236			●
RE-max 13, 0.75 W	140					25.2
RE-max 13, 0.75 W	140	GP 13, 0.05 - 0.15 Nm	235			●
RE-max 13, 0.75 W	140	GP 13, 0.2 - 0.35 Nm	236			●
RE-max 13, 2 W	142					36.2
RE-max 13, 2 W	142	GP 13, 0.05 - 0.15 Nm	235			●
RE-max 13, 2 W	142	GP 13, 0.2 - 0.35 Nm	236			●

Technical Data

Supply voltage V_{CC}	5 V ± 5%
Output signal	TTL compatible
Phase shift ϕ	90°e ± 45°e
Operating temperature range	-25...+85°C
Moment of inertia of code wheel	≤ 0.005 gcm ²
Output current per channel	max. 5 mA

Pin Allocation

Part Numbers 323049–323054
 Pin 1–10 / X = 0.3 ± 0.05 / Y = 11 - 0.1 / L = 80 ± 3
 Compatible connector:
 Molex 52207-1085, Tyco 1-84953-0
 Adapter print to DIN 41651, Art. No. 327086
 Pitch 1.0 mm, top contact style

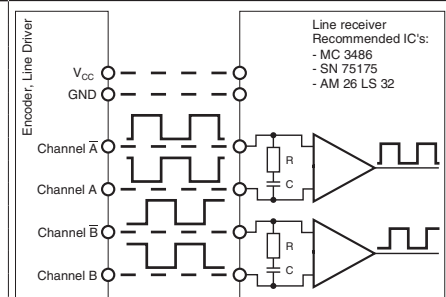


Part Numbers 334910
 Pin 1–8 / X = 0.3 ± 0.03 / Y = 4.5 ± 0.07 / L = 84 ± 3
 Compatible connector:
 Molex 52745-0896

- 1 Motor +
- 2 V_{CC}
- 3 GND
- 4 Motor -
- 5 Channel A
- 6 Channel A
- 7 Channel B
- 8 Channel B
- 9 N.C.
- 10 N.C.

- 1 Motor +
- 2 V_{CC}
- 3 GND
- 4 Motor -
- 5 Channel A
- 6 Channel A
- 7 Channel B
- 8 Channel B

Connection example



Terminal resistance R = typical 120 Ω
 Capacitor C ≥ 0.1 nF per m line length