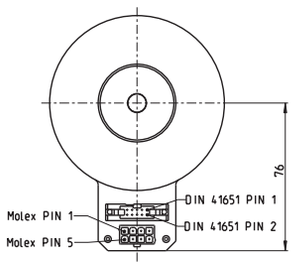
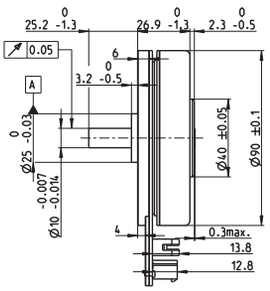
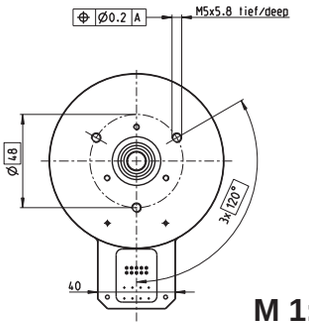
Encoder MILE 512–6400 CPT, 2 Channels, with Line Driver RS 422

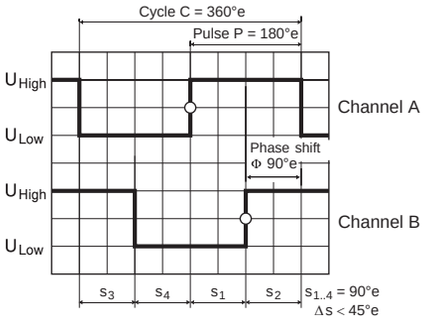
Integrated into motor







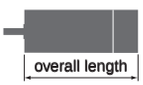
M 1:3

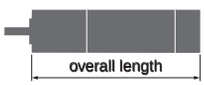


Direction of rotation cw (definition cw p. 106)

Stock program
Standard program
Special program (on request)

Part Numbers	453234	409996	453233	411964	453232	411965	453231	411966
Type								
Counts per turn	512	800	1024	1600	2048	3200	4096	6400
Number of channels	2	2	2	2	2	2	2	2
Max. operating frequency (kHz)	500	500	500	500	500	500	500	500
Max. speed (rpm)	5000	5000	5000	5000	5000	5000	5000	4650





maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead							
EC 90 flat	267					29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2
EC 90 flat	267	GP 52, 4 - 30 Nm	319			●	●	●	●	●	●	●	●

Technical Data

Supply voltage V_{CC}	5 V ± 10%
Output signal	EIA Standard RS422
driver used:	AM26C31QD
State length s_n (500 rpm)	90°e ± <45°e
Signal rise and fall times (typically, at C_L = 120 pF, R_L = 100 Ω)	20 ns
Operating temperature range	-40…+100 °C
Moment of inertia of code wheel	≤ 65 gcm²
Output current per channel	min. -20 mA, max. 20 mA
Wiring diagram for Hall sensors see p. 35	

Additional information can be found under 'Downloads' in the maxon online shop.

Pin Allocation

Connection motor

Pin 1 Hall sensor 1*
Pin 2 Hall sensor 2*
Pin 3 V_{Hall} 4.5...18 VDC
Pin 4 Motor winding 3
Pin 5 Hall sensor 3*
Pin 6 GND
Pin 7 Motor winding 1
Pin 8 Motor winding 2

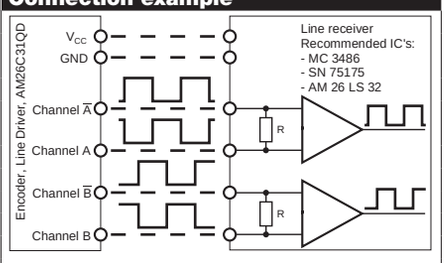
*Internal pull-up (10 kΩ) on pin 3 (V_{Hall})

Connector:
39-28-1083 Molex
DIN 41651/EN 60603-13

Connection Encoder

Pin 1 N.C.
Pin 2 V_{CC}
Pin 3 GND
Pin 4 N.C.
Pin 5 Channel $\overline{A}$
Pin 6 Channel A
Pin 7 Channel $\overline{B}$
Pin 8 Channel B
Pin 9 Do not connect
Pin 10 Do not connect

Connection example



Opt. terminal resistance R = typical 120 Ω