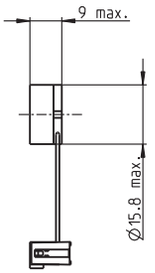
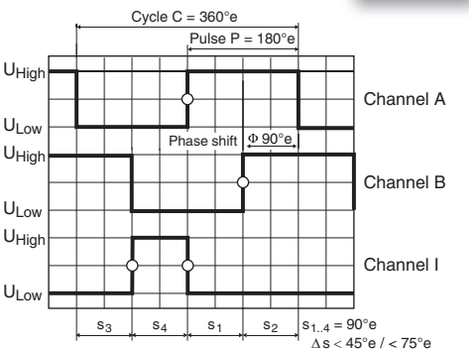
Encoder 16 EASY 128–1024 CPT, 3 Channels, with Line Driver RS 422 NEW

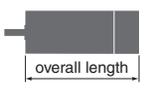


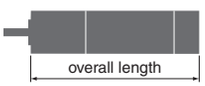


Direction of rotation cw (definition cw p. 78)

Stock program
Standard program
Special program (on request)

Part Numbers	462920	462921	465801	465802
Type				
Counts per turn	128	256	512	1024
Number of channels	3	3	3	3
Max. operating frequency (kHz)	500	500	500	500
Max. speed (rpm)	30000	30000	30000	30000
Phase shift Φ (°e)	90 ± 45	90 ± 45	90 ± 75	90 ± 75
Index pulse width (°e)	90 ± 45	90 ± 45	90 ± 75	90 ± 75
Hysteresis (°mech)	0.70	0.35	0.35	0.35





maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead			
EC-i 40, 50 W	228					37.7	37.7	37.7	37.7
EC-i 40, 50 W	228	GP 32, 1 - 6 Nm	277			●	●	●	●
EC-i 40, 50 W	228	GP 32 S	301-303			●	●	●	●
EC-i 40, 50 W	228	GP 42, 3 - 15 Nm	284			●	●	●	●
EC-i 40, 70 W	229					47.7	47.7	47.7	47.7
EC-i 40, 70 W	229	GP 32, 1 - 6 Nm	277			●	●	●	●
EC-i 40, 70 W	229	GP 32 S	301-303			●	●	●	●
EC-i 40, 70 W	229	GP 42, 3 - 15 Nm	284			●	●	●	●

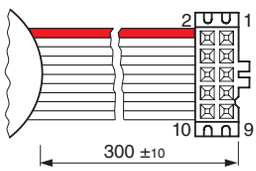
Technical Data

Supply voltage V_{CC}	5 V ± 10%
Output signal	EIA Standard RS 422
Operating temperature range	-40…+100 °C
Moment of inertia of code wheel	≤ 0.09 gcm²
Output current per channel	+/- 20 mA
Min. state duration s	500 ns
Signal rise and fall times (typically, at C_L = 200 pF, R_L = 100 Ω)	20 ns

Additional information can be found in themaxon online shop under downloads.

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

Pin Allocation

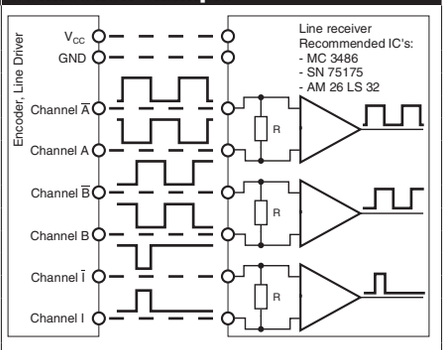


1	Do not connect[1]
2	V_{CC}
3	GND
4	Do not connect[1]
5	Channel $\overline{A}$
6	Channel A
7	Channel $\overline{B}$
8	Channel B
9	Channel $\overline{I}$ (Index)
10	Channel I (Index)

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

[1] Applying voltage to these pins can destroy the encoder.

Connection example



Opt. terminal resistance R = typical 120 Ω