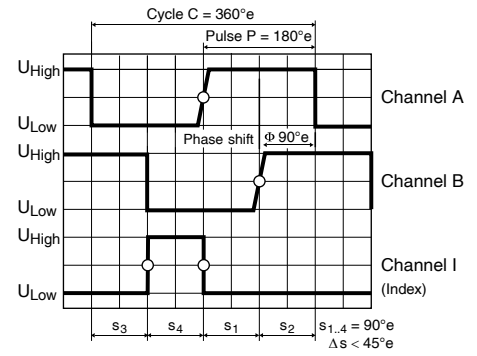
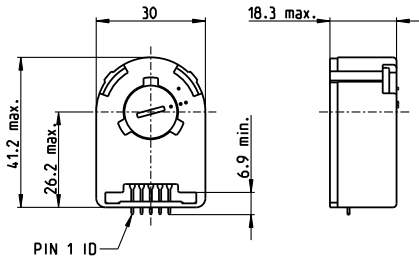


Encoder HEDS 5540 500 CPT, 3 Channels



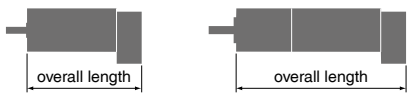
Direction of rotation cw (definition cw p. 68)

sensor

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

Part Numbers					
110511	110513	110515	110517	X drives	

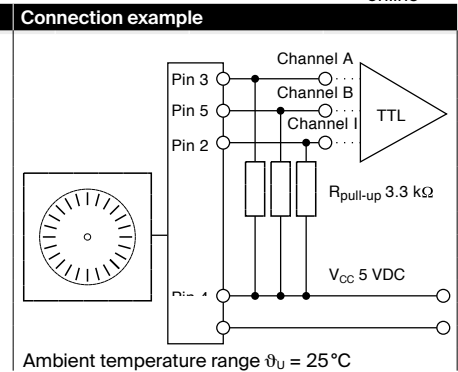
Type	110511	110513	110515	110517	X drives
Counts per turn	500	500	500	500	500
Number of channels	3	3	3	3	3
Max. operating frequency (kHz)	100	100	100	100	100
Max. speed (rpm)	12000	12000	12000	12000	12000
Shaft diameter (mm)	3	4	6	8	2-4



maxon Modular System						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
RE 25	134/136					75.3
RE 25	134/136	GP 26, 0.75 - 4.5 Nm	381			•
RE 25	134/136	GP 32, 0.75 - 6.0 Nm	383-387			•
RE 25	134/136	KD 32, 1.0 - 4.5 Nm	394			•
RE 25	134/136	GP 32 S	416-421			•
RE 25, 20 W	136			AB 28	519	105.8
RE 25, 20 W	136	GP 26, 0.75 - 4.5 Nm	381	AB 28	519	•
RE 25, 20 W	136	GP 32, 0.75 - 6.0 Nm	383-387	AB 28	519	•
RE 25, 20 W	136	KD 32, 1.0 - 4.5 Nm	394	AB 28	519	•
RE 25, 20 W	136	GP 32 S	416-421	AB 28	519	•
RE 30, 15 W	137					88.8
RE 30, 15 W	137	GP 32, 0.75 - 4.5 Nm	385			•
RE 30, 60 W	138					88.8
RE 30, 60 W	138	GP 32, 0.75 - 6.0 Nm	383-390			•
RE 30, 60 W	138	KD 32, 1.0 - 4.5 Nm	394			•
RE 30, 60 W	138	GP 32 S	416-421			•
RE 35, 90 W	139					91.7
RE 35, 90 W	139	GP 32, 0.75 - 8.0 Nm	383-391			•
RE 35, 90 W	139	GP 42, 3.0 - 15 Nm	396			•
RE 35, 90 W	139	GP 32 S	416-421			•
RE 35, 90 W	139			AB 28	519	124.3
RE 35, 90 W	139	GP 32, 0.75 - 8.0 Nm	383-391	AB 28	519	•
RE 35, 90 W	139	GP 42, 3.0 - 15 Nm	396	AB 28	519	•
RE 35, 90 W	139	GP 32 S	416-421	AB 28	519	•
RE 40, 25 W	140					91.7
RE 40, 150 W	141					•
RE 40, 150 W	141	GP 42, 3.0 - 15 Nm	396			•
RE 40, 150 W	141	GP 52, 4.0 - 30 Nm	401			•
RE 40, 150 W	141			AB 28	519	124.3
RE 40, 150 W	141	GP 42, 3.0 - 15 Nm	396	AB 28	519	•
RE 40, 150 W	141	GP 52, 4.0 - 30 Nm	401	AB 28	519	•
DCX 22 S	89-90					online
DCX 22 L	91-92					online
DCX 26 L	93-94					online
DCX 32 L	95					online

Technical Data	
Supply voltage V_{CC}	5 V ± 10%
Typical current draw	55 mA
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 2.7$ k Ω , 25°C)	180 ns
Signal fall time (typically, at $C_L = 25$ pF, $R_L = 2.7$ k Ω , 25°C)	40 ns
Index pulse width (nominal)	90°e
Operating temperature range	-40...+100 °C
Moment of inertia of code wheel	≤ 0.6 gcm ²
Max. angular acceleration	250 000 rad s ⁻²
Output current per channel	min. -1 mA, max. 5 mA

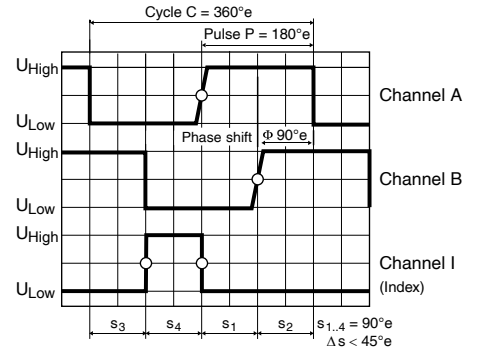
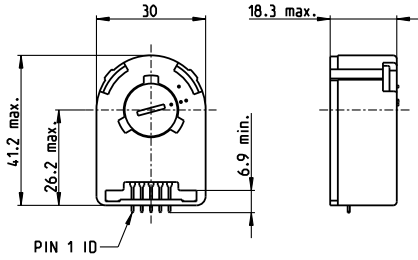
Pin Allocation		
	Encoder	Description
Pin 5	Channel B	
Pin 4	V_{CC}	
Pin 3	Channel A	
Pin 2	Channel I	
Pin 1	GND	



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

Encoder HEDS 5540 500 CPT, 3 Channels

sensor



Direction of rotation cw (definition cw p. 68)

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

Part Numbers					
110511	110513	110515	110517	X drives	

Type	110511	110513	110515	110517	X drives
Counts per turn	500	500	500	500	500
Number of channels	3	3	3	3	3
Max. operating frequency (kHz)	100	100	100	100	100
Max. speed (rpm)	12000	12000	12000	12000	12000
Shaft diameter (mm)	3	4	6	8	2-4

maxon Modular System						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
RE 25, 20 W	135					63.8
RE 25, 20 W	135	GP 26, 0.75 - 4.5 Nm	381			•
RE 25, 20 W	135	GP 32, 0.75 - 4.5 Nm	383			•
RE 25, 20 W	135	GP 32, 0.75 - 6.0 Nm	384/387			•
RE 25, 20 W	135	KD 32, 1.0 - 4.5 Nm	394			•
RE 25, 20 W	135	GP 32 S	416-421			•
RE 25, 20 W	135			AB 28	519	94.3
RE 25, 20 W	135	GP 22, 0.5 Nm	375			•
RE 25, 20 W	135	GP 26, 0.75 - 4.5 Nm	381	AB 28	519	•
RE 25, 20 W	135	GP 32, 0.75 - 4.5 Nm	383	AB 28	519	•
RE 25, 20 W	135	GP 32, 0.75 - 6.0 Nm	384/387	AB 28	519	•
RE 25, 20 W	135	KD 32, 1.0 - 4.5 Nm	394	AB 28	519	•
RE 25, 20 W	135	GP 32 S	416-421	AB 28	519	•
RE 50, 200 W	142					128.7
RE 50, 200 W	142	GP 52, 4 - 30 Nm	401			•
RE 50, 200 W	142	GP 62, 8 - 50 Nm	403			•
RE 65, 250 W	143					157.3
RE 65, 250 W	143	GP 81, 20 - 120 Nm	404			•
A-max 26	161-164					63.1
A-max 26	161-164	GP 26, 0.75 - 4.5 Nm	381			•
A-max 26	161-164	GS 30, 0.07 - 0.2 Nm	382			•
A-max 26	161-164	GP 32, 0.75 - 4.5 Nm	383			•
A-max 26	161-164	GP 32, 0.75 - 6.0 Nm	384/387			•
A-max 26	161-164	GS 38, 0.1 - 0.6 Nm	395			•
A-max 26	161-164	GP 32 S	416-421			•
A-max 32	166					82.3
A-max 32	166	GP 32, 0.75 - 6.0 Nm	383-388			•
A-max 32	166	GS 38, 0.1 - 0.6 Nm	395			•
A-max 32	166	GP 32 S	416-421			•
EC 32, 80 W	228					78.4
EC 32, 80 W	228	GP 32, 0.75 - 6.0 Nm	383-390			•
EC 32, 80 W	228	GP 32 S	416-421			•
EC 40, 170 W	229					103.4
EC 40, 170 W	229	GP 42, 3.0 - 15 Nm	396			•
EC 40, 170 W	229	GP 52, 4.0 - 30 Nm	401			•

Technical Data	
Supply voltage V_{CC}	$5 V \pm 10\%$
Typical current draw	55 mA
Output signal	TTL compatible
Phase shift ϕ	$90^\circ e \pm 45^\circ e$
Signal rise time (typically, at $C_L = 25 \text{ pF}$, $R_L = 2.7 \text{ k}\Omega$, 25°C)	180 ns
Signal fall time (typically, at $C_L = 25 \text{ pF}$, $R_L = 2.7 \text{ k}\Omega$, 25°C)	40 ns
Index pulse width	$90^\circ e$
Operating temperature range	$-40 \dots +100^\circ \text{C}$
Moment of inertia of code wheel	$\leq 0.6 \text{ gcm}^2$
Max. angular acceleration	$250\,000 \text{ rad s}^{-2}$
Output current per channel	min. -1 mA, max. 5 mA

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

Pin Allocation			
Encoder	Description	Pin no. from 3409.506	
Pin 5	Channel B	1	
Pin 4	V_{CC}	2	
Pin 3	Channel A	3	
Pin 2	Channel I	4	
Pin 1	GND	5	

