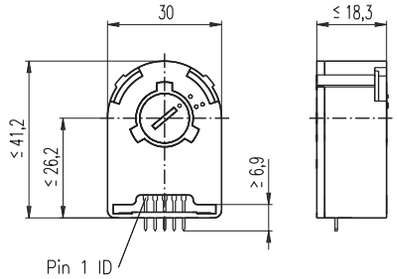
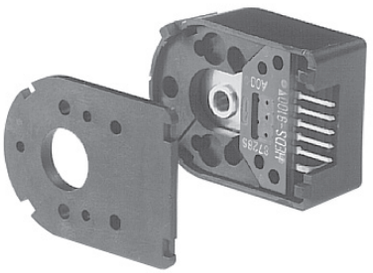
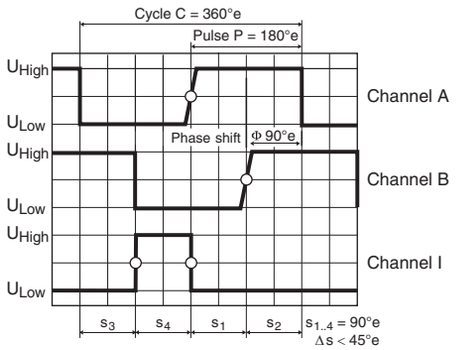
Encoder HEDS 5540 500 CPT, 3 Channels



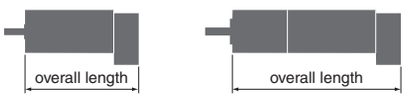




Direction of rotation cw (definition cw p. 150)

Stock program
Standard program
Special program (on request)

Part Numbers	110511	110513	110515
Type			
Counts per turn	500	500	500
Number of channels	3	3	3
Max. operating frequency (kHz)	100	100	100
Max. speed (rpm)	12000	12000	12000
Shaft diameter (mm)	3	4	6



maxon Modular System

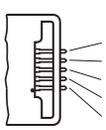
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead					
RE 25	179/181					75.3					
RE 25	179/181	GP 26, 0.75 - 2.0 Nm	336			●					
RE 25	179/181	GP 32, 0.75 - 6.0 Nm	338-342			●					
RE 25	179/181	KD 32, 1.0 - 4.5 Nm	347			●					
RE 25	179/181	GP 32 S	370-372			●					
RE 25, 20 W	181			AB 28	446	105.8					
RE 25, 20 W	181	GP 26, 0.75 - 2.0 Nm	336	AB 28	446	●					
RE 25, 20 W	181	GP 32, 0.75 - 6.0 Nm	338-342	AB 28	446	●					
RE 25, 20 W	181	KD 32, 1.0 - 4.5 Nm	347	AB 28	446	●					
RE 25, 20 W	181	GP 32 S	370-372	AB 28	446	●					
RE 30, 15 W	182					88.8					
RE 30, 15 W	182	GP 32, 0.75 - 4.5 Nm	340			●					
RE 30, 60 W	183					88.8					
RE 30, 60 W	183	GP 32, 0.75 - 6.0 Nm	338-344			●					
RE 30, 60 W	183	KD 32, 1.0 - 4.5 Nm	347			●					
RE 30, 60 W	183	GP 32 S	370-372			●					
RE 35, 90 W	184						91.7				
RE 35, 90 W	184	GP 32, 0.75 - 8.0 Nm	338-345				●				
RE 35, 90 W	184	GP 42, 3.0 - 15 Nm	349				●				
RE 35, 90 W	184	GP 32 S	370-372				●				
RE 35, 90 W	184			AB 28	446	124.3					
RE 35, 90 W	184	GP 32, 0.75 - 8.0 Nm	338-345	AB 28	446	●					
RE 35, 90 W	184	GP 42, 3.0 - 15 Nm	349	AB 28	446	●					
RE 35, 90 W	184	GP 32 S	370-372	AB 28	446	●					
RE 40, 25 W	185					91.7					
RE 40, 150 W	186						91.7				
RE 40, 150 W	186	GP 42, 3.0 - 15 Nm	349				●				
RE 40, 150 W	186	GP 52, 4.0 - 30 Nm	354				●				
RE 40, 150 W	186			AB 28	446	124.3					
RE 40, 150 W	186	GP 42, 3.0 - 15 Nm	349	AB 28	446	●					
RE 40, 150 W	186	GP 52, 4.0 - 30 Nm	354	AB 28	446	●					

Technical Data

Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	180 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	40 ns
Index pulse width (nominal)	90°e
Operating temperature range	-40...+100 °C
Moment of inertia of code wheel	≤ 0.6 gcm²
Max. angular acceleration	250000 rad s^{-2}
Output current per channel	min. -1 mA, max. 5 mA

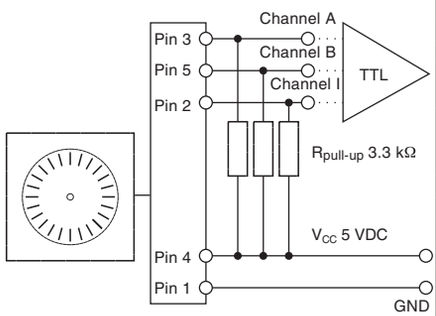
The index signal I is synchronized with channel A or B.

Pin Allocation



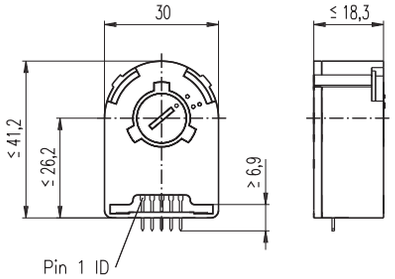
Encoder	Description	Pin no. from 3409.506
Pin 5	Channel B	1
Pin 4	V_{CC}	2
Pin 3	Channel A	3
Pin 2	Channel I	4
Pin 1	GND	5

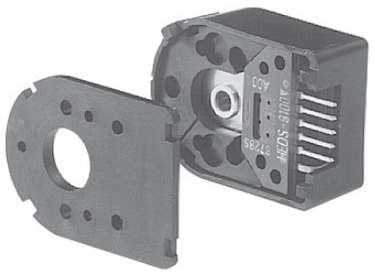
Connection example

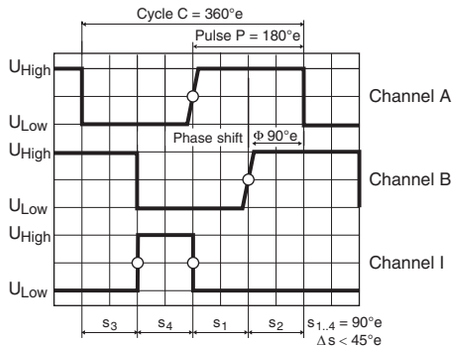


Ambient temperature range ϑ_U = 25 °C

Encoder HEDS 5540 500 CPT, 3 Channels







Direction of rotation cw (definition cw p. 150)

Stock program
Standard program
Special program (on request)

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

maxon Modular System

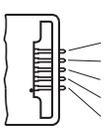
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead			
RE 25, 20 W	180					63.8			
RE 25, 20 W	180	GP 26, 0.75 - 2.0 Nm	336			●			
RE 25, 20 W	180	GP 32, 0.75 - 4.5 Nm	338			●			
RE 25, 20 W	180	GP 32, 0.75 - 6.0 Nm	339/342			●			
RE 25, 20 W	180	KD 32, 1.0 - 4.5 Nm	347			●			
RE 25, 20 W	180	GP 32 S	370-372			●			
RE 25, 20 W	180			AB 28	446	94.3			
RE 25, 20 W	180	GP 22, 0.5 Nm	329			●			
RE 25, 20 W	180	GP 26, 0.75 - 2.0 Nm	336	AB 28	446	●			
RE 25, 20 W	180	GP 32, 0.75 - 4.5 Nm	338	AB 28	446	●			
RE 25, 20 W	180	GP 32, 0.75 - 6.0 Nm	339/342	AB 28	446	●			
RE 25, 20 W	180	KD 32, 1.0 - 4.5 Nm	347	AB 28	446	●			
RE 25, 20 W	180	GP 32 S	370-372	AB 28	446	●			
RE 50, 200 W	187								128.7
RE 50, 200 W	187	GP 52, 4 - 30 Nm	355						●
RE 50, 200 W	187	GP 62, 8 - 50 Nm	356						●
RE 65, 250 W	188								157.3
RE 65, 250 W	188	GP 81, 20 - 120 Nm	357						●
A-max 26	206-212					63.1			
A-max 26	206-212	GP 26, 0.75 - 4.5 Nm	336			●			
A-max 26	206-212	GS 30, 0.07 - 0.2 Nm	337			●			
A-max 26	206-212	GP 32, 0.75 - 4.5 Nm	338			●			
A-max 26	206-212	GP 32, 0.75 - 6.0 Nm	339/343			●			
A-max 26	206-212	GS 38, 0.1 - 0.6 Nm	348			●			
A-max 26	206-212	GP 32 S	370-372			●			
A-max 32	214/216						82.3		
A-max 32	214/216	GP 32, 0.75 - 6.0 Nm	338-343				●		
A-max 32	214/216	GS 38, 0.1 - 0.6 Nm	348				●		
A-max 32	214/216	GP 32 S	370-372				●		
EC 32, 80 W	251						78.4		
EC 32, 80 W	251	GP 32, 0.75 - 6.0 Nm	338-344				●		
EC 32, 80 W	251	GP 32 S	370-372				●		
EC 40, 170 W	252							103.4	
EC 40, 170 W	252	GP 42, 3.0 - 15 Nm	349					●	
EC 40, 170 W	252	GP 52, 4.0 - 30 Nm	354					●	

Technical Data

Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	180 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	40 ns
Index pulse width	90°e
Operating temperature range	-40...+100 °C
Moment of inertia of code wheel	≤ 0.6 gcm²
Max. angular acceleration	250000 rad s^{-2}
Output current per channel	min. -1 mA, max. 5 mA

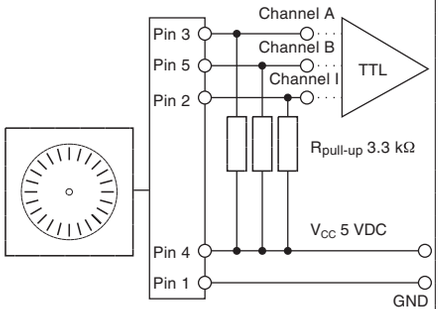
The index signal I is synchronized with channel A or B.

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

Connection example



Ambient temperature range ϑ_U = 25 °C