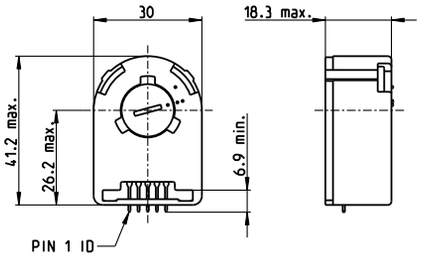
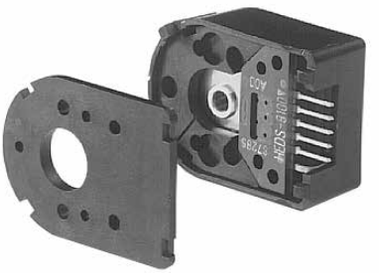
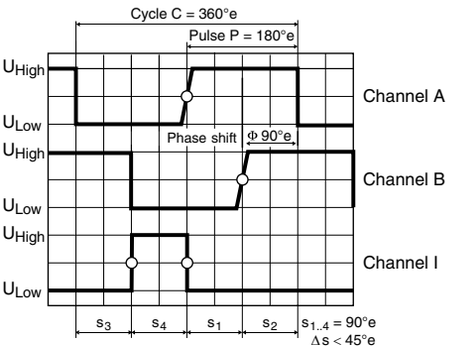
Encoder HEDS 5540 500 CPT, 3 Channels



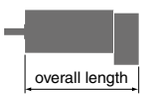


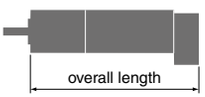


Direction of rotation cw (definition cw p. 60)

Stock program
Standard program
Special program (on request)

Part Numbers	110511	110513	110515	X drives
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	2-4





maxon Modular System

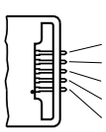
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead				
RE 25	125/127					75.3				
RE 25	125/127	GP 26, 0.75 - 4.5 Nm	340			●				
RE 25	125/127	GP 32, 0.75 - 6.0 Nm	342-346			●				
RE 25	125/127	KD 32, 1.0 - 4.5 Nm	352			●				
RE 25	125/127	GP 32 S	374-379			●				
RE 25, 20 W	127			AB 28	480	105.8				
RE 25, 20 W	127	GP 26, 0.75 - 4.5 Nm	340	AB 28	480	●				
RE 25, 20 W	127	GP 32, 0.75 - 6.0 Nm	342-346	AB 28	480	●				
RE 25, 20 W	127	KD 32, 1.0 - 4.5 Nm	352	AB 28	480	●				
RE 25, 20 W	127	GP 32 S	374-379	AB 28	480	●				
RE 30, 15 W	128					88.8				
RE 30, 15 W	128	GP 32, 0.75 - 4.5 Nm	344			●				
RE 30, 60 W	129					88.8				
RE 30, 60 W	129	GP 32, 0.75 - 6.0 Nm	342-349			●				
RE 30, 60 W	129	KD 32, 1.0 - 4.5 Nm	352			●				
RE 30, 60 W	129	GP 32 S	374-379			●				
RE 35, 90 W	130						91.7			
RE 35, 90 W	130	GP 32, 0.75 - 8.0 Nm	342-350				●			
RE 35, 90 W	130	GP 42, 3.0 - 15 Nm	354				●			
RE 35, 90 W	130	GP 32 S	374-379				●			
RE 35, 90 W	130			AB 28	480	124.3				
RE 35, 90 W	130	GP 32, 0.75 - 8.0 Nm	342-350	AB 28	480	●				
RE 35, 90 W	130	GP 42, 3.0 - 15 Nm	354	AB 28	480	●				
RE 35, 90 W	130	GP 32 S	374-379	AB 28	480	●				
RE 40, 25 W	131						91.7			
RE 40, 150 W	132						●			
RE 40, 150 W	132	GP 42, 3.0 - 15 Nm	354				●			
RE 40, 150 W	132	GP 52, 4.0 - 30 Nm	359				●			
RE 40, 150 W	132			AB 28	480	124.3				
RE 40, 150 W	132	GP 42, 3.0 - 15 Nm	354	AB 28	480	●				
RE 40, 150 W	132	GP 52, 4.0 - 30 Nm	359	AB 28	480	●				
DCX 22 S	80-81									online
DCX 22 L	82-83									online
DCX 26 L	84-85									online
DCX 32 L	86									online
DCX 35 L	87									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 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

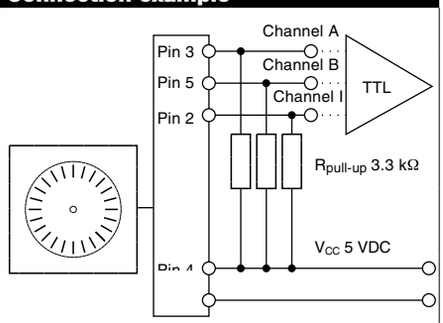
The index signal I is synchronized with channel A or B.

Pin Allocation



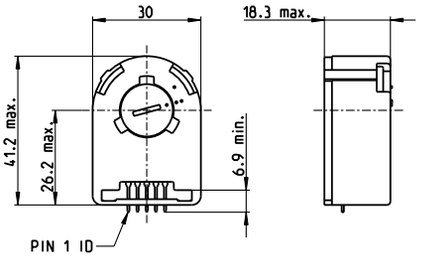
Encoder	Description	Pin no. from 3409.506
Pin 5	Channel B	1
Pin 4	V_{CC}	2
Pin 3	Channel A	3
Pin 2	Channel I	4
Pin 1	GND	5

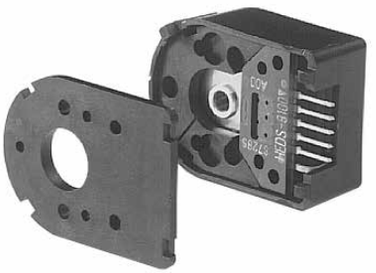
Connection example

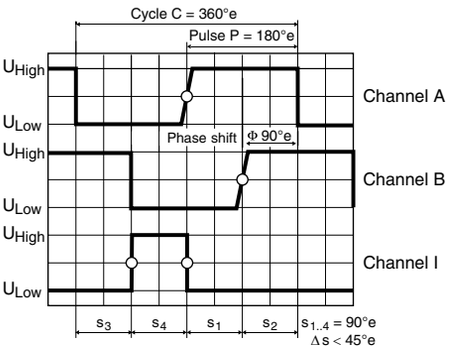


Ambient temperature range ϑ_U = 25 °C

Encoder HEDS 5540 500 CPT, 3 Channels







Direction of rotation cw (definition cw p. 60)

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	126					63.8			
RE 25, 20 W	126	GP 26, 0.75 - 4.5 Nm	340			●			
RE 25, 20 W	126	GP 32, 0.75 - 4.5 Nm	342			●			
RE 25, 20 W	126	GP 32, 0.75 - 6.0 Nm	343/346			●			
RE 25, 20 W	126	KD 32, 1.0 - 4.5 Nm	352			●			
RE 25, 20 W	126	GP 32 S	374-378			●			
RE 25, 20 W	126			AB 28	480	94.3			
RE 25, 20 W	126	GP 22, 0.5 Nm	334			●			
RE 25, 20 W	126	GP 26, 0.75 - 4.5 Nm	340	AB 28	480	●			
RE 25, 20 W	126	GP 32, 0.75 - 4.5 Nm	342	AB 28	480	●			
RE 25, 20 W	126	GP 32, 0.75 - 6.0 Nm	343/346	AB 28	480	●			
RE 25, 20 W	126	KD 32, 1.0 - 4.5 Nm	352	AB 28	480	●			
RE 25, 20 W	126	GP 32 S	374-378	AB 28	480	●			
RE 50, 200 W	133								128.7
RE 50, 200 W	133	GP 52, 4 - 30 Nm	360						●
RE 50, 200 W	133	GP 62, 8 - 50 Nm	361						●
RE 65, 250 W	134								157.3
RE 65, 250 W	134	GP 81, 20 - 120 Nm	362						●
A-max 26	152-158					63.1			
A-max 26	152-158	GP 26, 0.75 - 4.5 Nm	340			●			
A-max 26	152-158	GS 30, 0.07 - 0.2 Nm	341			●			
A-max 26	152-158	GP 32, 0.75 - 4.5 Nm	342			●			
A-max 26	152-158	GP 32, 0.75 - 6.0 Nm	343/347			●			
A-max 26	152-158	GS 38, 0.1 - 0.6 Nm	353			●			
A-max 26	152-158	GP 32 S	374-378			●			
A-max 32	160/162						82.3		
A-max 32	160/162	GP 32, 0.75 - 6.0 Nm	342-347				●		
A-max 32	160/162	GS 38, 0.1 - 0.6 Nm	353				●		
A-max 32	160/162	GP 32 S	374-378				●		
EC 32, 80 W	212						78.4		
EC 32, 80 W	212	GP 32, 0.75 - 6.0 Nm	342-349				●		
EC 32, 80 W	212	GP 32 S	374-378				●		
EC 40, 170 W	213							103.4	
EC 40, 170 W	213	GP 42, 3.0 - 15 Nm	354					●	
EC 40, 170 W	213	GP 52, 4.0 - 30 Nm	359					●	

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 kΩ, 25 °C)	180 ns
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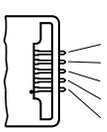
Moment of inertia of code wheel	≤ 0.6 gcm²
Max. angular acceleration	250000 rad s^{-2}
Output current per channel	min. -1 mA, max. 5 mA

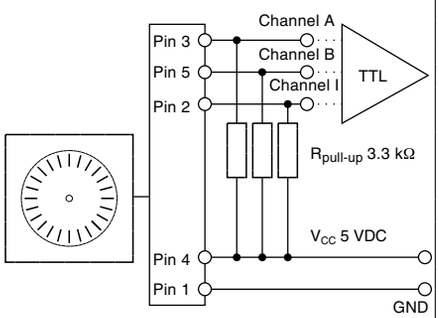
The index signal I is synchronized with channel A or B.

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