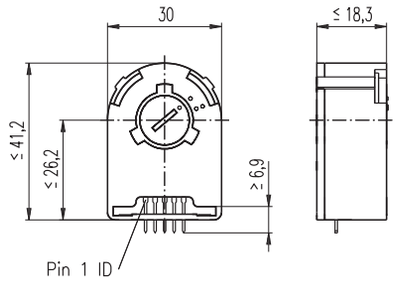
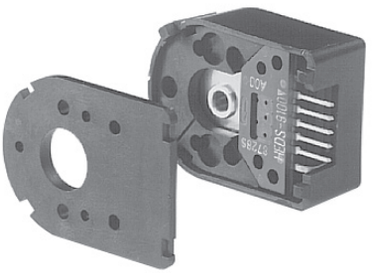
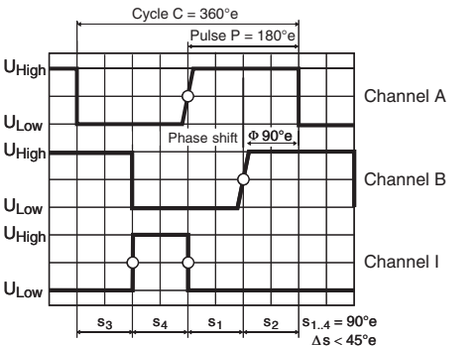
Encoder HEDS 5540 500 CPT, 3 Channels



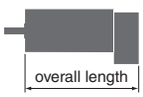


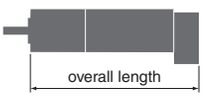


Direction of rotation cw (definition cw p. 78)

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

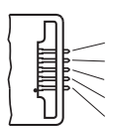
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead						
RE 25	107/109					75.3						
RE 25	107/109	GP 26, 0.75 - 2.0 Nm	270			●						
RE 25	107/109	GP 32, 0.75 - 6.0 Nm	272-276			●						
RE 25	107/109	KD 32, 1.0 - 4.5 Nm	281			●						
RE 25	107/109	GP 32 S	301-303			●						
RE 25, 20 W	109			AB 28	372	105.8						
RE 25, 20 W	109	GP 26, 0.75 - 2.0 Nm	270	AB 28	372	●						
RE 25, 20 W	109	GP 32, 0.75 - 6.0 Nm	272-276	AB 28	372	●						
RE 25, 20 W	109	KD 32, 1.0 - 4.5 Nm	281	AB 28	372	●						
RE 25, 20 W	109	GP 32 S	301-303	AB 28	372	●						
RE 30, 15 W	110					88.8						
RE 30, 15 W	110	GP 32, 0.75 - 4.5 Nm	274			●						
RE 30, 60 W	111					88.8						
RE 30, 60 W	111	GP 32, 0.75 - 6.0 Nm	272-278			●						
RE 30, 60 W	111	KD 32, 1.0 - 4.5 Nm	281			●						
RE 30, 60 W	111	GP 32 S	301-303			●						
RE 35, 90 W	112						91.7					
RE 35, 90 W	112	GP 32, 0.75 - 8.0 Nm	272-279				●					
RE 35, 90 W	112	GP 42, 3.0 - 15 Nm	283				●					
RE 35, 90 W	112	GP 32 S	301-303				●					
RE 35, 90 W	112			AB 28	372	124.3						
RE 35, 90 W	112	GP 32, 0.75 - 8.0 Nm	272-279	AB 28	372	●						
RE 35, 90 W	112	GP 42, 3.0 - 15 Nm	283	AB 28	372	●						
RE 35, 90 W	112	GP 32 S	301-303	AB 28	372	●						
RE 40, 25 W	113						91.7					
RE 40, 150 W	114						91.7					
RE 40, 150 W	114	GP 42, 3.0 - 15 Nm	283				●					
RE 40, 150 W	114	GP 52, 4.0 - 30 Nm	287				●					
RE 40, 150 W	114			AB 28	372	124.3						
RE 40, 150 W	114	GP 42, 3.0 - 15 Nm	283	AB 28	372	●						
RE 40, 150 W	114	GP 52, 4.0 - 30 Nm	287	AB 28	372	●						

Technical Data

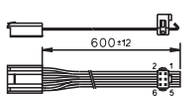
Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	180 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	40 ns
Index pulse width (nominal)	90°e
Operating temperature range	-40…+100 °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.

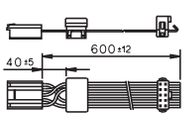
Pin Allocation



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

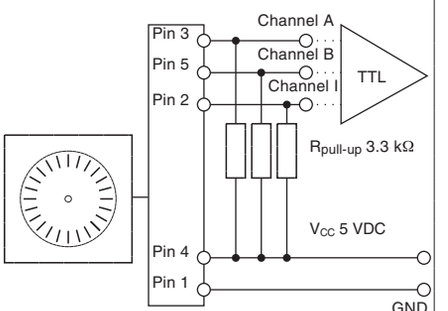


Cable with plug:
maxon part number 3409.506
The plug (Harting 918.906.6803) can be fixed in the required position.



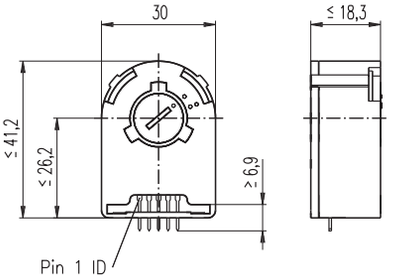
Cable with plug (compatible with encoder HEDS5010):
maxon part number 3409.504
The plug (3M 89110-0101) can be fixed in the required position.

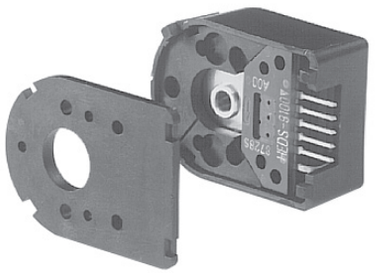
Connection example

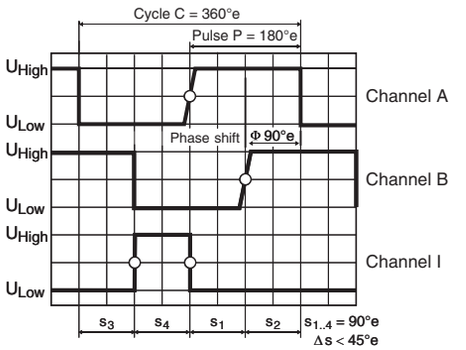


Ambient temperature range ϑ_U = 25 °C

Encoder HEDS 5540 500 CPT, 3 Channels







Direction of rotation cw (definition cw p. 78)

Stock program
Standard program
Special program (on request)

Type	Part Numbers 110511	110513	110515	110517
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

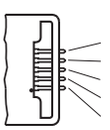
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead			
RE 25, 20 W	108					63.8			
RE 25, 20 W	108	GP 26, 0.75 - 2.0 Nm	270			●			
RE 25, 20 W	108	GP 32, 0.75 - 4.5 Nm	272			●			
RE 25, 20 W	108	GP 32, 0.75 - 6.0 Nm	273/276			●			
RE 25, 20 W	108	KD 32, 1.0 - 4.5 Nm	281			●			
RE 25, 20 W	108	GP 32 S	301-303			●			
RE 25, 20 W	108			AB 28	372	94.3			
RE 25, 20 W	108	GP 22, 0.5 Nm	262			●			
RE 25, 20 W	108	GP 26, 0.75 - 2.0 Nm	270	AB 28	372	●			
RE 25, 20 W	108	GP 32, 0.75 - 4.5 Nm	272	AB 28	372	●			
RE 25, 20 W	108	GP 32, 0.75 - 6.0 Nm	273/276	AB 28	372	●			
RE 25, 20 W	108	KD 32, 1.0 - 4.5 Nm	281	AB 28	372	●			
RE 25, 20 W	108	GP 32 S	301-303	AB 28	372	●			
RE 50, 200 W	115								128.7
RE 50, 200 W	115	GP 52, 4 - 30 Nm	288						●
RE 50, 200 W	115	GP 62, 8 - 50 Nm	289						●
RE 65, 250 W	116								157.3
RE 65, 250 W	116	GP 81, 20 - 120 Nm	290						●
A-max 26	134-140					63.1			
A-max 26	134-140	GP 26, 0.75 - 4.5 Nm	270			●			
A-max 26	134-140	GS 30, 0.07 - 0.2 Nm	271			●			
A-max 26	134-140	GP 32, 0.75 - 4.5 Nm	272			●			
A-max 26	134-140	GP 32, 0.75 - 6.0 Nm	273/277			●			
A-max 26	134-140	GS 38, 0.1 - 0.6 Nm	282			●			
A-max 26	134-140	GP 32 S	301-303			●			
A-max 32	142/144						82.3		
A-max 32	142/144	GP 32, 0.75 - 6.0 Nm	272-277				●		
A-max 32	142/144	GS 38, 0.1 - 0.6 Nm	282				●		
A-max 32	142/144	GP 32 S	301-303				●		
EC 32, 80 W	192						78.4		
EC 32, 80 W	192	GP 32, 0.75 - 6.0 Nm	272-278				●		
EC 32, 80 W	192	GP 32 S	301-303				●		
EC 40, 170 W	193							103.4	
EC 40, 170 W	193	GP 42, 3.0 - 15 Nm	283					●	
EC 40, 170 W	193	GP 52, 4.0 - 30 Nm	287					●	

Technical Data

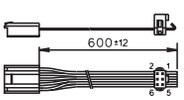
Supply voltage V_{CC}	5 V ± 10%
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	180 ns
Signal fall time (typically, at C_L = 25 pF, R_L = 2.7 kΩ, 25 °C)	40 ns
Index pulse width	90°e
Operating temperature range	-40…+100 °C
Moment 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.

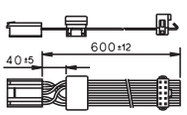
Pin Allocation



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

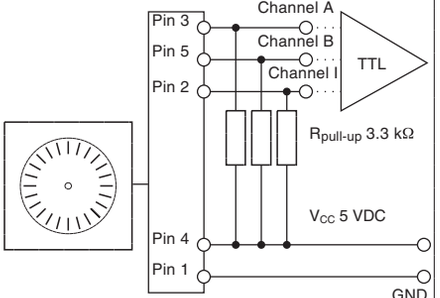


Cable with plug:
maxon part number 3409.506
The plug (Harting 918.906.6803) can be fixed in the required position.



Cable with plug (compatible with encoder HEDS5010):
maxon part number 3409.504
The plug (3M 89110-0101) can be fixed in the required position.

Connection example



Ambient temperature range ϑ_U = 25 °C