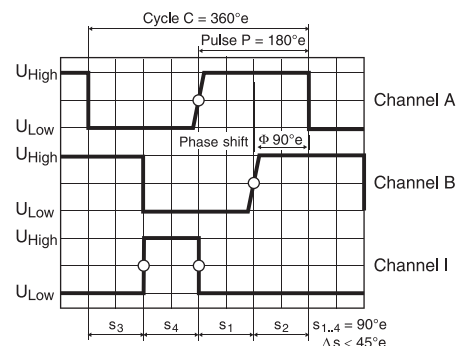
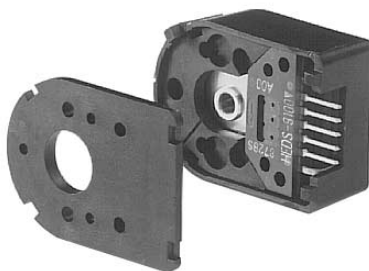
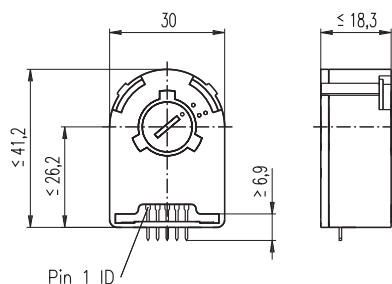


Encoder HEDS 5540, 500 CPT, 3 Channels



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

Order Number

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	77/79					75.3
RE 25	77/79	GP 26, 0.5 - 2.0 Nm	230			•
RE 25	77/79	GP 32, 0.75 - 4.5 Nm	232			•
RE 25	77/79	GP 32, 0.75 - 6.0 Nm	233/235			•
RE 25	77/79	KD 32	238			•
RE 25	77/79	GP 32 S	251-253			•
RE 25, 20 W	79			AB 28	316	105.7
RE 25, 20 W	79	GP 26, 0.5 - 2.0 Nm	230	AB 28	316	•
RE 25, 20 W	79	GP 32, 0.75 - 4.5 Nm	232	AB 28	316	•
RE 25, 20 W	79	GP 32, 0.75 - 6.0 Nm	233/235	AB 28	316	•
RE 25, 20 W	79	KD 32	238	AB 28	316	•
RE 25, 20 W	79	GP 32 S	251-253	AB 28	316	•
RE 35, 90 W	81					91.7
RE 35, 90 W	81	GP 32, 0.75 - 4.5 Nm	232			•
RE 35, 90 W	81	GP 32, 0.75 - 6.0 Nm	234/235			•
RE 35, 90 W	81	GP 32, 4.0 - 8.0 Nm	237			•
RE 35, 90 W	81	GP 42, 3.0 - 15 Nm	240			•
RE 35, 90 W	81	GP 32 S	251-253			•
RE 35, 90 W	81			AB 28	316	124.1
RE 35, 90 W	81	GP 32, 0.75 - 4.5 Nm	232	AB 28	316	•
RE 35, 90 W	81	GP 32, 0.75 - 6.0 Nm	234/235	AB 28	316	•
RE 35, 90 W	81	GP 32, 4.0 - 8.0 Nm	237	AB 28	316	•
RE 35, 90 W	81	GP 42, 3.0 - 15 Nm	240	AB 28	316	•
RE 35, 90 W	81	GP 32 S	251-253	AB 28	316	•
RE 40, 150 W	82					91.7
RE 40, 150 W	82	GP 42, 3.0 - 15 Nm	240			•
RE 40, 150 W	82	GP 52, 4.0 - 30 Nm	243			•
RE 40, 150 W	82			AB 28	316	124.2
RE 40, 150 W	82	GP 42, 3.0 - 15 Nm	240	AB 28	316	•
RE 40, 150 W	82	GP 52, 4.0 - 30 Nm	243	AB 28	316	•

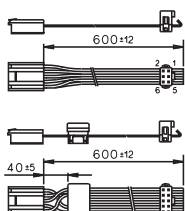
Technical Data

Supply voltage	5 V ± 10 %
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 2.7$ 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



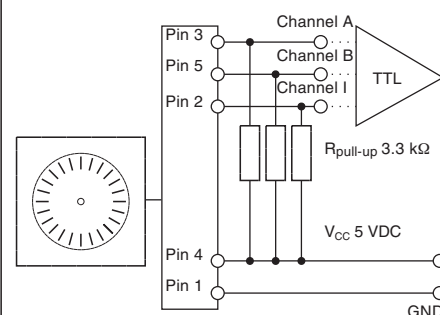
Encoder	Description	Pin no. from 3409.506
Pin 5	Channel B	1
Pin 4	V _{CC}	2
Pin 3	Channel A	3
Pin 2	Channel I	4
Pin 1	GND	5



Cable with plug:
maxon Art. No. 3409.506
The plug (Harting 0918.506.6803) can be fixed in the required position.

Cable with plug: (compatible with encoder HEDS5010)
maxon Art. No. 3409.504
The plug (3M 89110-0101) can be fixed in the required position

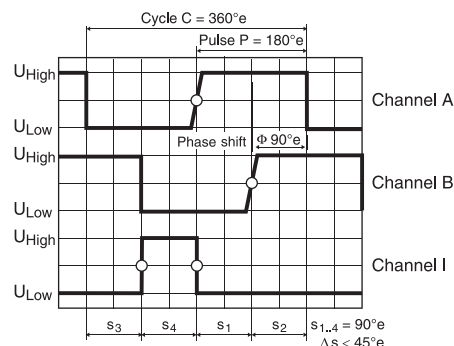
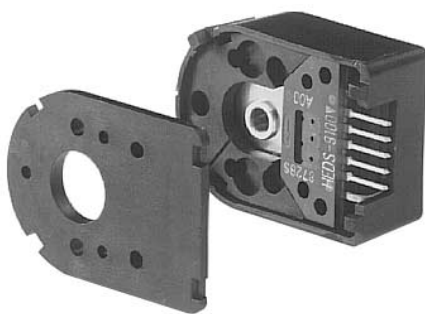
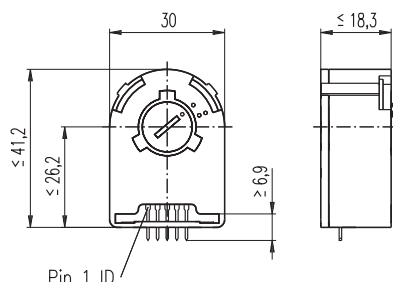
Connection example



Ambient temperature range $\delta U = 25^\circ\text{C}$

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

Encoder HEDS 5540, 500 CPT, 3 Channels



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

Order Number

110511	110513	110515	110517
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Type

Counts per turn	500	500	500	500
Number of channels	3	3	3	3
Max. speed (rpm)	12000	12000	12000	12000
Max. operating frequency (kHz)	100	100	100	100
Shaft diameter (mm)	3	4	6	8



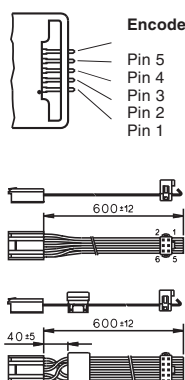
maxon Modular System

+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
RE 25	78					63.8
RE 25	78	GP 26, 0.5 - 2.0 Nm	230			•
RE 25	78	GP 32, 0.75 - 4.5 Nm	232			•
RE 25	78	GP 32, 0.75 - 6.0 Nm	233/235			•
RE 25	78	KD 32	238			•
RE 25	78	GP 32 S	251-253			•
RE 25, 20 W	78			AB 28	316	94.3
RE 25, 20 W	78	GP 26, 0.5 - 2.0 Nm	230	AB 28	316	•
RE 25, 20 W	78	GP 32, 0.75 - 4.5 Nm	232	AB 28	316	•
RE 25, 20 W	78	GP 32, 0.75 - 6.0 Nm	233/235	AB 28	316	•
RE 25, 20 W	78	KD 32	238	AB 28	316	•
RE 25, 20 W	78	GP 32 S	251-253	AB 28	316	•
RE 50, 150 W	83					128.7
RE 50, 150 W	83	GP 52, 4 - 30 Nm	243			•
RE 50, 150 W	83	GP 62, 8 - 50 Nm	245			•
RE 65, 250 W	84					157.3
RE 65, 250 W	84	GP 81, 20 - 120 Nm	246			•
A-max 32	104/106	GP 32 S				•
A-max 26	106-112					63.5
A-max 26	106-112	GP 26, 0.5 - 2.0 Nm	230			•
A-max 26	106-112	GS 30, 0.07 - 0.2 Nm	231			•
A-max 26	106-112	GP 32, 0.75 - 4.5 Nm	232			•
A-max 26	106-112	GP 32, 0.75 - 6.0 Nm	233/236			•
A-max 26	106-112	GS 38, 0.1 - 0.6 Nm	239			•
A-max 26	106-112	GP 32 S				•
A-max 32	114/116					82.3
A-max 32	114/116	GP 32, 0.75 - 6.0 Nm	234/236			•
A-max 32	114/116	GS 38, 0.1 - 0.6 Nm	239			•
EC 32, 80 W	156					78.4
EC 32, 80 W	156	GP 32, 0.75 - 6.0 Nm	234/236			•
EC 32, 80 W	156	GP 32 S				•
EC 40, 120 W	157					88.4
EC 40, 120 W	157	GP 42, 3.0 - 15 Nm	240			•
EC 40, 120 W	157	GP 52, 4.0 - 30 Nm	243			•

Technical Data

Supply voltage	5 V ± 10 %
Output signal	TTL compatible
Phase shift Φ	90°e ± 45°e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 2.7$ 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	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

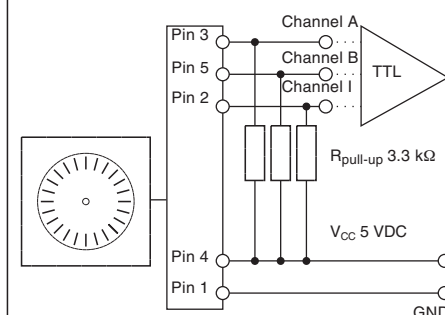


Encoder	Description	Pin no. from 3409.506
Pin 5	Channel B	1
Pin 4	V _{CC}	2
Pin 3	Channel A	3
Pin 2	Channel I	4
Pin 1	GND	5

Cable with plug:
maxon Art. No. 3409.506
 The plug (Harting 918.906.6803) can be fixed in the required position

Cable with plug: (compatible with encoder HEDS5010)
maxon Art. No. 3409.504
 The plug (3M 891100101) can be fixed in the required position

Connection example



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

Ambient temperature range $\delta U = 25^\circ\text{C}$