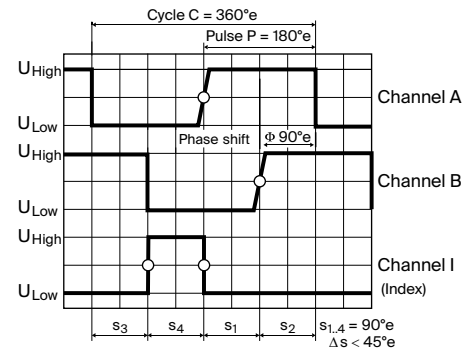
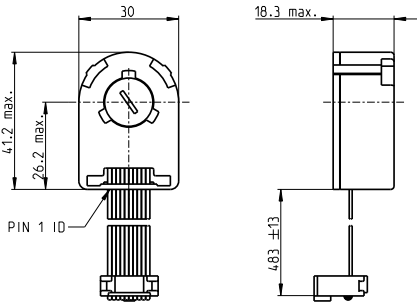


Encoder HEDL 5540 500 CPT, 3 channels, with line driver RS 422



Direction of rotation cw (definition cw p. 90)

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

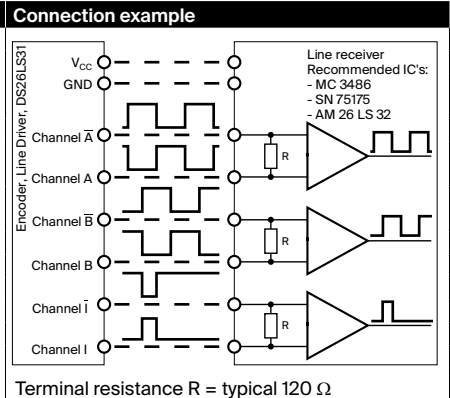
Part numbers			
110512	110514	110516	110518

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)	12 000	12 000	12 000	12 000
Shaft diameter (mm)	3	4	6	8

Modular system					
+ Motor	Page	+ Gearhead	Page	+ Brake	Page
RE 25	156/158				
RE 25	156/158	GP 26/GP 32	425/426		
RE 25	156/158	KD 32, 1.0 - 4.5 Nm	435		
RE 25	156/158	GP 32, 0.75 - 6.0 Nm	427/429		
RE 25	156/158	GP 32 S	474-482		
RE 25, 20 W	157				
RE 25, 20 W	157	GP 22, 0.5 Nm	419		
RE 25, 20 W	157	GP 26/GP 32	425/426		
RE 25, 20 W	157	KD 32, 1.0 - 4.5 Nm	435		
RE 25, 20 W	157	GP 32, 0.75 - 6.0 Nm	427/429		
RE 25, 20 W	157	GP 32 S	474-482		
RE 25, 20 W	157			AB 28	587
RE 25, 20 W	157	GP 26/GP 32	425/426	AB 28	587
RE 25, 20 W	157	KD 32, 1.0 - 4.5 Nm	435	AB 28	587
RE 25, 20 W	157	GP 32, 0.75 - 6.0 Nm	427/429	AB 28	587
RE 25, 20 W	157	GP 32 S	474-482	AB 28	587
RE 25, 20 W	158			AB 28	587
RE 25, 20 W	158	GP 26/GP 32	425/426	AB 28	587
RE 25, 20 W	158	KD 32, 1.0 - 4.5 Nm	435	AB 28	587
RE 25, 20 W	158	GP 32, 0.75 - 6.0 Nm	427/429	AB 28	587
RE 25, 20 W	158	GP 32 S	474-482	AB 28	587
RE 30, 15 W	159				
RE 30, 15 W	159	GP 32, 0.75 - 4.5 Nm	427		
RE 30, 60 W	160				
RE 30, 60 W	160	GP 32, 0.75 - 6.0 Nm	426-431		
RE 30, 60 W	160	KD 32, 1.0 - 4.5 Nm	435		
RE 30, 60 W	160	GP 32 S	474-482		
RE 35, 90 W	161				
RE 35, 90 W	161	GP 32, 0.75 - 8.0 Nm	426-433		
RE 35, 90 W	161	GP 42, 3.0 - 15.0 Nm	439		
RE 35, 90 W	161	GP 32 S	474-482		
RE 35, 90 W	161			AB 28	587
RE 35, 90 W	161	GP 32, 0.75 - 8.0 Nm	426-433	AB 28	587
RE 35, 90 W	161	GP 42, 3.0 - 15.0 Nm	439	AB 28	587
RE 35, 90 W	161	GP 32 S	475-482	AB 28	587

Technical data	
Supply voltage V _{CC}	5 V ±10%
Typical current draw	55 mA
Output signal driver used:	EIA Standard RS 422 DS26LS31
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 gcm ²
Max. angular acceleration	250 000 rad s ⁻²
Output current per channel	±20 mA

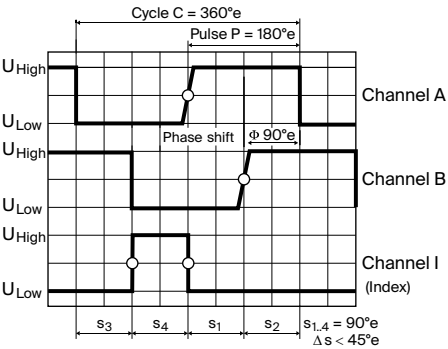
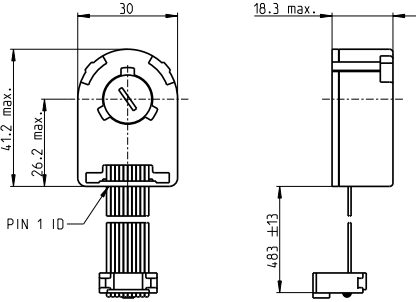
Pin allocation	
	1 N.C. 2 V _{CC} 3 GND 4 N.C. 5 Channel A 6 Channel A 7 Channel B 8 Channel B 9 Channel I (Index) 10 Channel I (Index)
	Pin type DIN 41651/ EN 60603-13 flat band cable AWG 28



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

Encoder HEDL 5540 500 CPT, 3 channels, with line driver RS 422

sensor

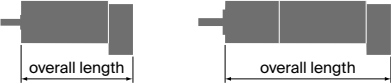


Direction of rotation cw (definition cw p. 90)

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

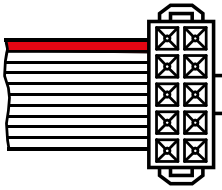
Part numbers			
110512	110514	110516	110518

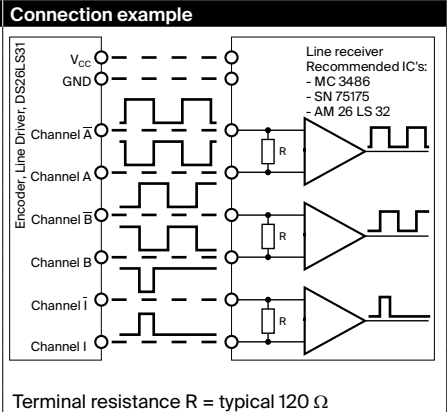
Type				
Counts per turn	500	500	500	500
Number of channels	3	3	3	3
Max. operating frequency (kHz)	100	100	100	100
Max. speed (rpm)	12 000	12 000	12 000	12 000
Shaft diameter (mm)	3	4	6	8



Modular system						Overall length [mm] / • see Gearhead	
+ Motor	Page	+ Gearhead	Page	+ Brake	Page		
RE 40, 25 W	162					91.7	
RE 40, 150 W	163					91.7	
RE 40, 150 W	163	GP 42, 3.0 - 15.0 Nm	439			•	
RE 40, 150 W	163	GP 52, 4.0 - 30.0 Nm	443			•	
RE 40, 150 W	163			AB 28	587	124.3	
RE 40, 150 W	163	GP 42, 3.0 - 15.0 Nm	439	AB 28	587	•	
RE 40, 150 W	163	GP 52, 4.0 - 30.0 Nm	443	AB 28	587	•	
RE 50, 200 W	164						128.7
RE 50, 200 W	164	GP 52, 4.0 - 30.0 Nm	443			•	
RE 50, 200 W	164	GP 62, 6.2 - 38.5 Nm	445			•	
RE 65, 250 W	165						157.3
RE 65, 250 W	165	GP 81, 15.4 - 92.3 Nm	446			•	
A-max 26	183-186					63.5	
A-max 26	183-186	GP 26, 0.75 - 4.5 Nm	425			•	
A-max 26	183-186	GP 32, 0.75 - 6.0 Nm	428/429			•	
A-max 26	183-186	GP 32 S	474-482			•	
A-max 32	188					82.3	
A-max 32	188	GP 32, 0.75 - 6.0 Nm	426-429			•	
A-max 32	188	GP 32 S	474-482			•	
EC 32, 80 W	271					78.4	
EC 32, 80 W	271	GP 32, 0.75 - 6.0 Nm	426-431			•	
EC 32, 80 W	271	GP 32 S	474-482			•	
EC 40, 170 W	272						103.4
EC 40, 170 W	272	GP 42, 3.0 - 15.0 Nm	439			•	
EC 40, 170 W	272	GP 52, 4.0 - 30.0 Nm	443			•	
EC 40, 170 W	272			AB 32	587	141.1	
EC 40, 170 W	272	GP 42, 3.0 - 15.0 Nm	439	AB 32	587	•	
EC 40, 170 W	272	GP 52, 4.0 - 30.0 Nm	443	AB 32	587	•	

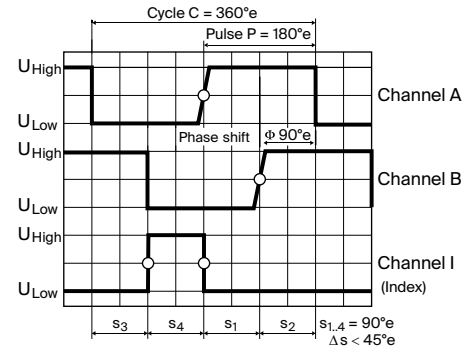
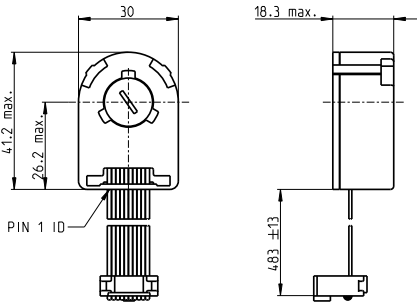
Technical data	
Supply voltage V_{CC}	5 V $\pm 10\%$
Typical current draw	55 mA
Output signal	EIA Standard RS 422
driver used:	DS26LS31
Phase shift ϕ	90°e $\pm 45^\circ$ e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 2.7$ k Ω , 25°C)	180 ns
Signal fall time (typically, at $C_L = 25$ pF, $R_L = 2.7$ 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	± 20 mA

Pin allocation	
	1 N.C. 2 V_{CC} 3 GND 4 N.C. 5 Channel A 6 Channel B 7 Channel C 8 Channel D 9 Channel I (Index) 10 Channel I (Index)
	Pin type DIN 41651/ EN 60603-13 flat band cable AWG 28



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

Encoder HEDL 5540 500 CPT, 3 channels, with line driver RS 422



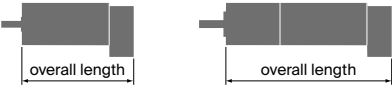
sensor

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

Part numbers

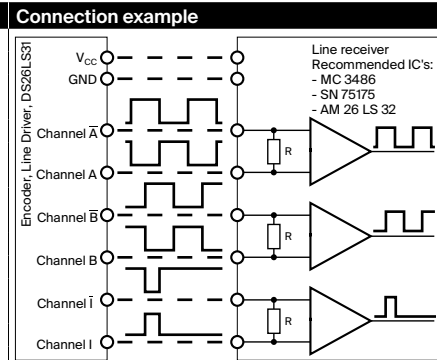
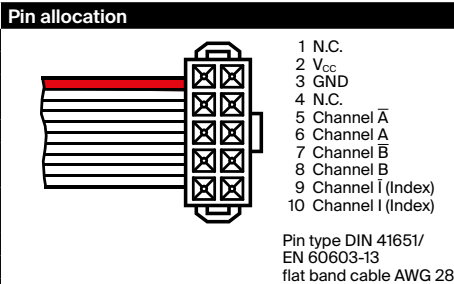
110512	110514	110516	110518
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Type				
Counts per turn	500	500	500	500
Number of channels	3	3	3	3
Max. operating frequency (kHz)	100	100	100	100
Max. speed (rpm)	12 000	12 000	12 000	12 000
Shaft diameter (mm)	3	4	6	8



Modular system						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see Gearhead
EC-max 30, 40 W	284					62.7
EC-max 30, 40 W	284	GP 32, 0.75 - 4.5 Nm	428			●
EC-max 30, 40 W	284	GP 32, 1.0 - 8.0 Nm	430/432			●
EC-max 30, 40 W	284	KD 32, 1.0 - 4.5 Nm	435			●
EC-max 30, 40 W	284	GP 32 S	474-482			●
EC-max 30, 40 W	284			AB 20	584	98.2
EC-max 30, 40 W	284	GP 32, 0.75 - 4.5 Nm	428	AB 20	584	●
EC-max 30, 40 W	284	GP 32, 1.0 - 8.0 Nm	430/432	AB 20	584	●
EC-max 30, 40 W	284	KD 32, 1.0 - 4.5 Nm	435	AB 20	584	●
EC-max 30, 40 W	284	GP 32 S	474-482	AB 20	584	●
EC-max 30, 60 W	285					84.7
EC-max 30, 60 W	285	GP 32, 0.75 - 4.5 Nm	428			●
EC-max 30, 60 W	285	GP 32, 1.0 - 8.0 Nm	430/432			●
EC-max 30, 60 W	285	KD 32, 1.0 - 4.5 Nm	435			●
EC-max 30, 60 W	285	GP 42, 3.0 - 15.0 Nm	440			●
EC-max 30, 60 W	285	GP 32 S	474-482			●
EC-max 30, 60 W	285			AB 20	584	120.2
EC-max 30, 60 W	285	GP 32, 0.75 - 4.5 Nm	428	AB 20	584	●
EC-max 30, 60 W	285	GP 32, 1.0 - 8.0 Nm	430/432	AB 20	584	●
EC-max 30, 60 W	285	KD 32, 1.0 - 4.5 Nm	435	AB 20	584	●
EC-max 30, 60 W	285	GP 42, 3.0 - 15.0 Nm	440	AB 20	584	●
EC-max 30, 60 W	285	GP 32 S	474-482	AB 20	584	●
EC-max 40, 70 W	286					81.4
EC-max 40, 70 W	286	GP 42, 3.0 - 15.0 Nm	440			●
EC-max 40, 70 W	286			AB 28	586	110.7
EC-max 40, 70 W	286	GP 42, 3.0 - 15.0 Nm	440	AB 28	586	●
EC-max 40, 120 W	287					111.4
EC-max 40, 120 W	287	GP 42, 3.0 - 15.0 Nm	440			●
EC-max 40, 120 W	287	GP 52, 4.0 - 30.0 Nm	444			●
EC-max 40, 120 W	287			AB 28	586	140.7
EC-max 40, 120 W	287	GP 42, 3.0 - 15.0 Nm	440	AB 28	586	●
EC-max 40, 120 W	287	GP 52, 4.0 - 30.0 Nm	444	AB 28	586	●

Technical data	
Supply voltage V _{CC}	5 V ±10%
Typical current draw	55 mA
Output signal driver used:	EIA Standard RS 422 DS26LS31
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 gcm ²
Max. angular acceleration	250 000 rad s ⁻²
Output current per channel	±20 mA



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

Terminal resistance R = typical 120 Ω