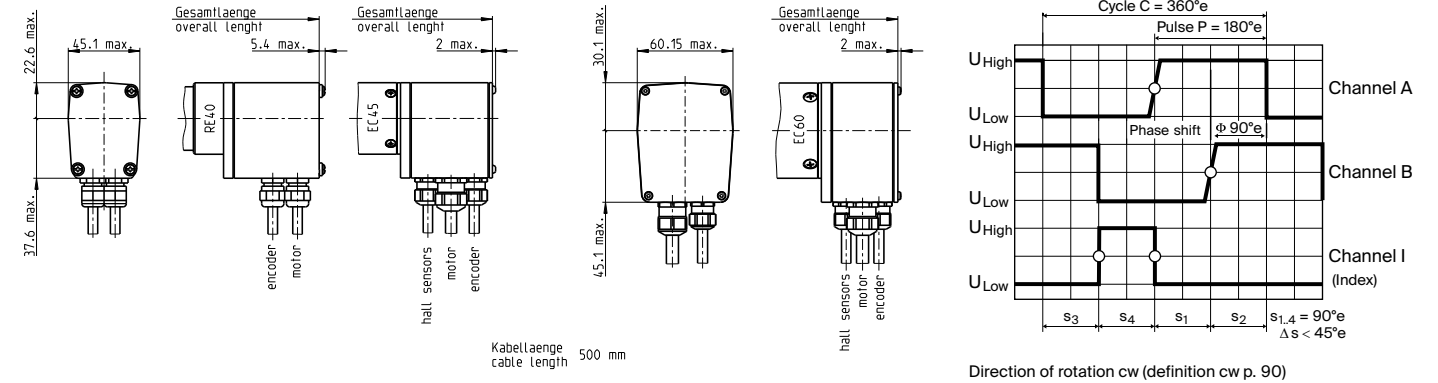


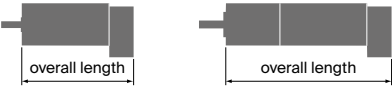
Encoder HEDL 9140 500 CPT, 3 channels, with line driver RS 422

sensor



Stock program Standard program Special program (on request)	Part numbers 137959
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Type	
Counts per turn	500
Number of channels	3
Max. operating frequency (kHz)	100
Max. speed (rpm)	12 000

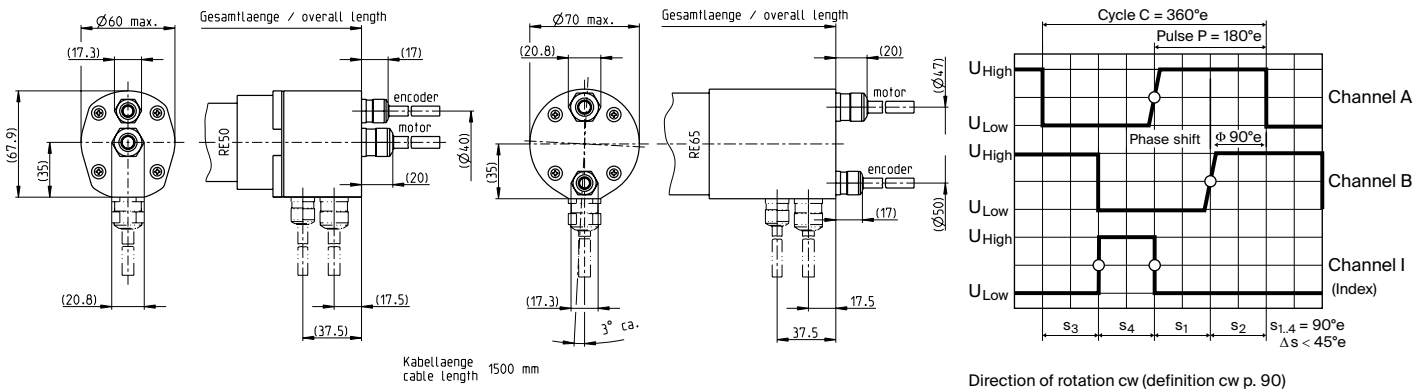


Modular system						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
RE 40, 150 W	163					125.1
RE 40, 150 W	163	GP 42, 3 - 15 Nm	439			•
RE 40, 150 W	163	GP 52, 4 - 30 Nm	443			•
RE 40, 150 W	163			AB 28	587-588	135.6
RE 40, 150 W	163	GP 42, 3 - 15 Nm	439	AB 28	587-588	•
RE 40, 150 W	163	GP 52, 4 - 30 Nm	443	AB 28	587-588	•
EC 45, 150 W	273					126.8
EC 45, 150 W	273	GP 42, 3 - 15 Nm	439			•
EC 45, 150 W	273	GP 52, 4 - 30 Nm	443			•
EC 45, 150 W	273			AB 28	588	135.6
EC 45, 150 W	273	GP 42, 3 - 15 Nm	439	AB 28	588	•
EC 45, 150 W	273	GP 52, 4 - 30 Nm	443	AB 28	588	•
EC 45, 250 W	274					159.6
EC 45, 250 W	274	GP 42, 3 - 15 Nm	439			•
EC 45, 250 W	274	GP 52, 4 - 30 Nm	443-444			•
EC 45, 250 W	274	GP 62, 6.2 - 38.5 Nm	445			•
EC 45, 250 W	274			AB 28	588	168.4
EC 45, 250 W	274	GP 42, 3 - 15 Nm	439	AB 28	588	•
EC 45, 250 W	274	GP 52, 4 - 30 Nm	443-444	AB 28	588	•
EC 45, 250 W	274	GP 62, 6.2 - 38.5 Nm	445	AB 28	588	•
EC 60, 400 W	275					177.3
EC 60, 400 W	275	GP 81, 15.4 - 92.3 Nm	446			•
EC 60, 400 W	275			AB 41	590	214.9
EC 60, 400 W	275	GP 81, 15.4 - 92.3 Nm	446	AB 41	590	•

Technical data	Pin allocation	Connection example
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°e Signal rise time (typically, at $C_L = 25$ pF, $R_L = 11$ k Ω , 25°C) 180 ns Signal fall time (typically, at $C_L = 25$ pF, $R_L = 11$ k Ω , 25°C) 40 ns Index pulse width 90°e Operating temperature range -40...+85°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	Cable white = 2 V_{CC} 5 VDC Cable brown = 3 GND Cable green = 5 Channel A Cable yellow = 6 Channel B Cable grey = 7 Channel I Cable pink = 8 Channel I (Index) Cable blue = 9 Channel I (Index) Cable red = 10 Channel I (Index) Cable size 8 x 0.25 mm ²	Encoder, Line Driver, DS26LS31 Line receiver Recommended IC's: - MC 3486 - SN 75175 - AM 26 LS 32 Terminal resistance R = typical 120 Ω

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

Encoder HEDL 9140 500 CPT, 3 channels, with line driver RS 422

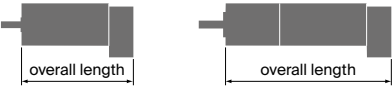


sensor

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

Part numbers	
cable outlet axial	386051 386001
cable outlet radial	386053 386002

Type		
Counts per turn	500	500
Number of channels	3	3
Max. operating frequency (kHz)	100	100
Max. speed (rpm)	12 000	12 000



Modular system						
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / • see Gearhead
RE 50, 200 W	164					170.4
RE 50, 200 W	164	GP 52, 4 - 30 Nm	443			•
RE 50, 200 W	164	GP 62, 6.2 - 38.5 Nm	445			•
RE 50, 200 W	164			AB 44	592	183.4
RE 50, 200 W	164	GP 52, 4 - 30 Nm	443	AB 44	592	•
RE 50, 200 W	164	GP 62, 6.2 - 38.5 Nm	445	AB 44	592	•
RE 65, 250 W	165					187.5
RE 65, 250 W	165	GP 81, 15.4 - 92.3 Nm	446			•
RE 65, 250 W	165			AB 44	592	205.5
RE 65, 250 W	165	GP 81, 15.4 - 92.3 Nm	446	AB 44	592	•

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°e
Signal rise time (typically, at $C_L = 25$ pF, $R_L = 11$ k Ω , 25°C)	180 ns
Signal fall time (typically, at $C_L = 25$ pF, $R_L = 11$ k Ω , 25°C)	40 ns
Index pulse width	90°e
Operating temperature range	-40...+85°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
Protection to	IP54

Pin allocation	
Encoder	
Cable white	= V_{CC} 5 VDC
Cable brown	= GND
Cable green	= Channel $\bar{A}$
Cable yellow	= Channel A
Cable grey	= Channel $\bar{B}$
Cable pink	= Channel B
Cable blue	= Channel $\bar{I}$ (Index)
Cable red	= Channel I (Index)
Cable size 8 $\times$ 0.25 mm ²	
Motor	
Cable white	= Motor +
Cable brown	= Motor -
Cable size 2 $\times$ 1.0 mm ²	

