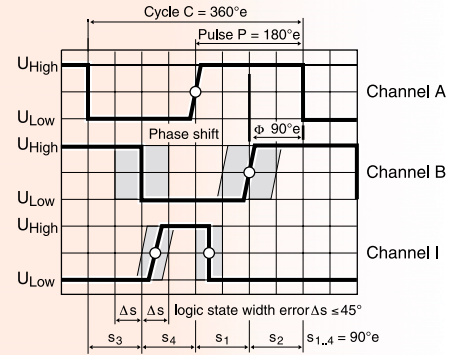
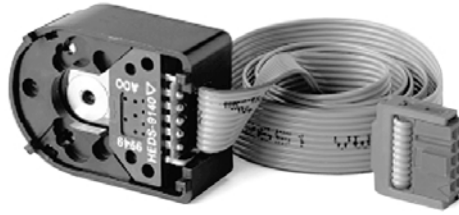
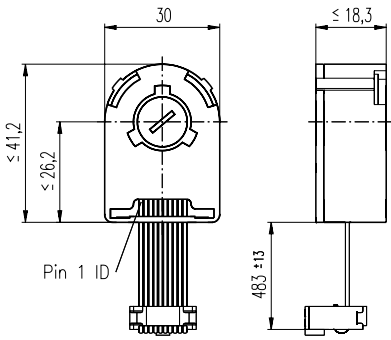


# Digital Encoder HEDL 55\_\_ with Line Driver RS 422

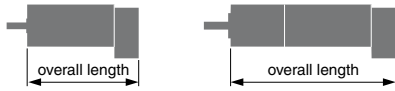


- Stock program
- Standard program
- Special program (on request!)

### Order Number

110512	110514	110516	110518
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Type	Shaft diameter	mm	3	4	6	8



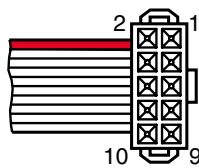
Combination						Overall length [mm] / ● see: + Gearhead
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	
RE 25, 10 W	76					75.3
RE 25, 10 W	76	GP 26, 0.5 - 2.0 Nm	193			●
RE 25, 10 W	76	GP 32, 0.75 - 6.0 Nm	195/197			●
RE 25, 10 W	76	GP 32, 0.4 - 2.0 Nm	199			●
RE 25, 20 W	77					75.3
RE 25, 20 W	77	GP 26, 0.5 - 2.0 Nm	193			●
RE 25, 20 W	77	GP 32, 0.75 - 6.0 Nm	195/197			●
RE 25, 20 W	77	GP 32, 0.4 - 2.0 Nm	199			●
RE 26, 18 W	78					77.2
RE 26, 18 W	78	GP 26, 0.5 - 2.0 Nm	193			●
RE 26, 18 W	78	GP 32, 0.75 - 6.0 Nm	195/197			●
RE 26, 18 W	78	GP 32, 0.4 - 2.0 Nm	199			●
RE 35, 90 W	80					91.9
RE 35, 90 W	80	GP 32, 0.75 - 6.0 Nm	196/198			●
RE 35, 90 W	80	GP 42, 3.0 - 15 Nm	201			●
RE 36, 70 W	81					92.2
RE 36, 70 W	81	GP 32, 0.75 - 6.0 Nm	196/198			●
RE 36, 70 W	81	GP 32, 0.4 - 2.0 Nm	199			●
RE 36, 70 W	81	GP 42, 3.0 - 15 Nm	201			●
RE 40, 150 W	82					91.7
RE 40, 150 W	82	GP 42, 3.0 - 15 Nm	201			●
RE 40, 150 W	82	GP 52, 4.0 - 30 Nm	202			●
RE 40, 150 W	82			Brake 40	248	107.1
RE 40, 150 W	82	GP 42, 3.0 - 15 Nm	201	Brake 40	248	●
RE 40, 150 W	82	GP 42, 4.0 - 30 Nm	202	Brake 40	248	●
RE 75, 250 W*	83					241.5
RE 75, 250 W*	83	GP 81, 20 - 120 Nm	204			●
RE 75, 250 W*	83			Brake 75	250	281.4
RE 75, 250 W*	83	GP 81, 20 - 120 Nm	204	Brake 75	250	●

\*Pin layout for RE 75 motors see page 219

### Technical Data

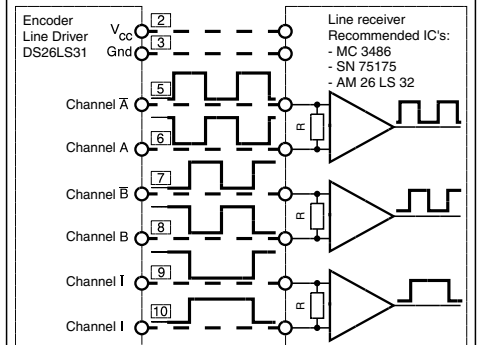
Supply voltage	5 V ± 10 %
Output signal	EIA Standard RS 422
drivers used:	DS26LS31
No. of channels	<b>2+1 Index Channel</b> (not at 1000 CPT)
Counts per turn	<b>500</b>   1000
Phase shift $\Phi$ (nominal)	90°e
Logic state width s	min. 45°e
Signal rise time (typical at $C_L = 25$ pF, $R_L = 2.7$ k $\Omega$ , 25°C)	180 ns
Signal fall time (typical at $C_L = 25$ pF, $R_L = 2.7$ k $\Omega$ , 25°C)	40 ns
Index pulse width (nominal) Option	90°e
Operating temperature range	0 ... +70°C
Moment of inertia of code wheel	≤ 0.6 gcm <sup>2</sup>
Max. acceleration	250 000 rad s <sup>-2</sup>
Output current per channel	min. -1 mA, max. 20 mA
Max. operating frequency	100 kHz

### Pin Allocation



- 1 N.C.
  - 2 Vcc
  - 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 Berg 246770  
Flat cables AWG 28

### Connection Example



Terminal resistance R = typical 100  $\Omega$