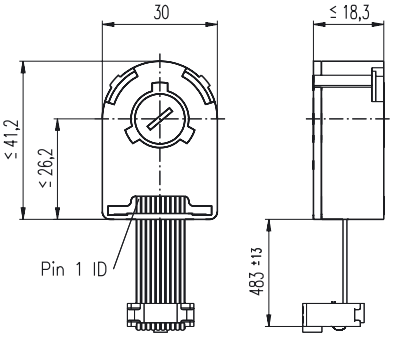
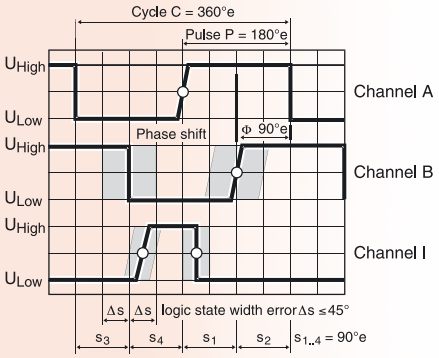
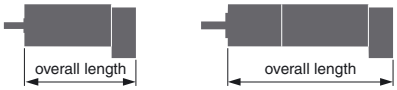
Encoder HEDL 5540, 500 Counts per turn, 3 Channels, with Line Driver RS 422





Stock program
Standard program
Special program (on request!)

Order Number	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
Shaft diameter (mm)	3	4	6	8



Combination

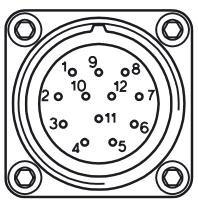
+ Motor	Page	+ Gearhead	Page	+ Brake	Page	Overall length [mm] / ● see: + Gearhead				
RE 25, 10 W*	77					75.3				
RE 25, 10 W*	77	GP 26, 0.5 - 2.0 Nm	216			●				
RE 25, 10 W*	77	GP 32, 0.75 - 6.0 Nm	218/220			●				
RE 25, 10 W*	77	GP 32, 0.4 - 2.0 Nm	222			●				
RE 25, 20 W*	78					75.3				
RE 25, 20 W*	78	GP 26, 0.5 - 2.0 Nm	216			●				
RE 25, 20 W*	78	GP 32, 0.75 - 6.0 Nm	218/220			●				
RE 25, 20 W*	78	GP 32, 0.4 - 2.0 Nm	222			●				
RE 26, 18 W*	79					77.2				
RE 26, 18 W*	79	GP 26, 0.5 - 2.0 Nm	216			●				
RE 26, 18 W*	79	GP 32, 0.75 - 6.0 Nm	218/220			●				
RE 26, 18 W*	79	GP 32, 0.4 - 2.0 Nm	222			●				
RE 35, 90 W*	81						91.9			
RE 35, 90 W*	81	GP 32, 0.75 - 6.0 Nm	219/220				●			
RE 35, 90 W*	81	GP 42, 3.0 - 15 Nm	224				●			
RE 35, 90 W*	81			AB 40	279	124.1				
RE 35, 90 W*	81	GP 32, 0.75 - 6.0 Nm	219/220	AB 40	279	●				
RE 35, 90 W*	81	GP 42, 3.0 - 15 Nm	224	AB 40	279	●				
RE 36, 70 W*	82						92.2			
RE 36, 70 W*	82	GP 32, 0.75 - 6.0 Nm	219/220				●			
RE 36, 70 W*	82	GP 32, 0.4 - 2.0 Nm	222				●			
RE 36, 70 W*	82	GP 42, 3.0 - 15 Nm	224				●			
RE 40, 150 W*	83						91.7			
RE 40, 150 W*	83	GP 42, 3.0 - 15 Nm	224				●			
RE 40, 150 W*	83	GP 52, 4.0 - 30 Nm	227				●			
RE 40, 150 W*	83			AB 40	279	124.2				
RE 40, 150 W*	83	GP 42, 3.0 - 15 Nm	224	AB 40	279	●				
RE 40, 150 W*	83	GP 42, 4.0 - 30 Nm	227	AB 40	279	●				
RE 75, 250 W	84									241.5
RE 75, 250 W	84	GP 81, 20 - 120 Nm	230							●
RE 75, 250 W	84			AB 75	282					281.4
RE 75, 250 W	84	GP 81, 20 - 120 Nm	230	AB 75	282					●

*Pin allocation see page 245

Technical Data

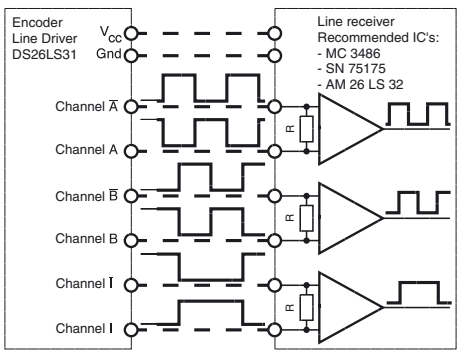
Supply voltage	5 V ± 10 %
Output signal	EIA Standard RS 422
drivers used:	DS26LS31
Phase shift Φ (nominal)	90°e
Logic state width s	min. 45°e
Signal rise time (typical at C_L = 25 pF, R_L = 2.7 kΩ, 25°C)	180 ns
Signal fall time (typical at C_L = 25 pF, R_L = 2.7 kΩ, 25°C)	40 ns
Index pulse width (nominal)	90°e
Operating temperature range	0 ... +70°C
Moment of inertia of code wheel	≤ 0.6 gcm²
Max. angular acceleration	250 000 rad s⁻²
Output current per channel	min. -20 mA, max. 20 mA
Option	1000 counts per turn, 2 channel

Pin Allocation for motor RE 75



Flanged connector
Type SOURIAU 8GM-QL2-12P
1 V_{CC}
2 N.C. (do not connect)
3 GND
4 N.C. (do not connect)
5 Channel I (Index)
6 Channel $\overline{I}$
7 Channel B
8 Channel $\overline{B}$
9 Channel A
10 Channel $\overline{A}$
11 N.C. (do not connect)
12 N.C. (do not connect)
recommended cable plug
Type SOURIAU 8GM-DM2-12S
(metal, straight exit:
maxon Art. No. 2675.538) or
8G-V2-12S (plastic, 90° angle:
maxon Art. No. 2675.539)

Connection example



Terminal resistance R = typical 100 Ω