LEINE LINDE



Flat Pancake Design - 700 Series

Compact Design

The 700 series is compact and robust. The series features large hollow shafts up to 25.4 mm, which means that it can often be mounted directly on the motor's shaft without an intermediate adapter for shaft reduction. This characteristic contributes to minimising the overall build length, and at the same time facilitates mounting. Despite its compactness, the encoder is designed for the tough environments where a typical Leine & Linde product is used. Mechanically it features a dual set of heavy duty bearings and a well-encapsulated enclosure.

Electronically it is built for reliability in tough environments where it is subjected to vibrations and electrical disturbances.

Resolution

Incremental Pulses Per Revolution:					
10 ppr	1024 ppr				
50 ppr	1200 ppr				
100 ppr	1250 ppr				
150 ppr	1800 ppr				
200 ppr	2000 ppr				
256 ppr	2048 ppr				
300 ppr	2400 ppr				
360 ppr	2500 ppr				
400 ppr	3072 ppr				
500 ppr	4000 ppr				
512 ppr	4096 ppr				
600 ppr	4800 ppr				
720 ppr	5000 ppr				
800 ppr	6350 ppr				
900 ppr	10000 ppr				
1000 ppr					

Flange

Torque bracket (120°)	
Tether arm (with insulation)	

Shaft

Through-Going Hollow Shafts with Insulation:	
Ø25 mm	
Ø20 mm	
Ø16 mm	
Ø14 mm	
Ø12 mm	

Connection

M23 connector 12 pin (CCW)
MS connector 10 pin
MS connector 7 pin
Cable (free length)

Electronics

Output Interfaces (Supply Voltage):
HTL (5-30 Vdc)
HCHTL (9-30 Vdc)
TTL (5 Vdc)
RS422 (9-30 Vdc)
1 Vpp (5 Vdc)





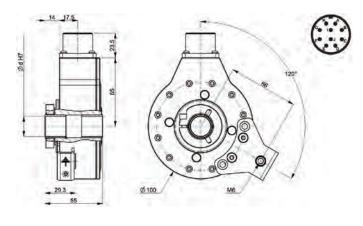


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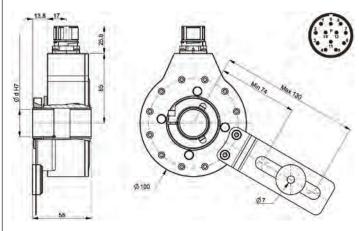
Flat Pancake Design - 700 Series

Mechanics

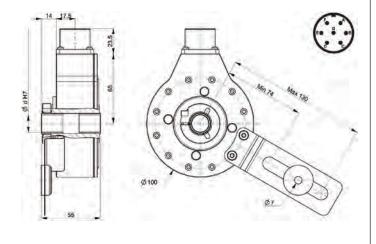
Model CHI 703 with Torque Bracket and 10 Pin MS Connector



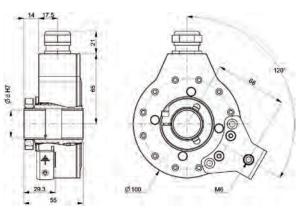
Model CHI 703 with Tether Arm and 12 Pin M23 Connector



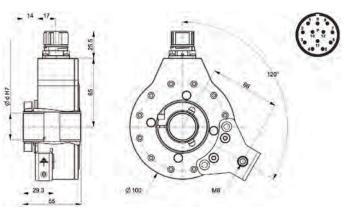
Model CHI 703 with Tether Arm and 7 Pin MS Connector



Model CHI 703 with Tether Arm and 7 Pin MS Connector



Model CHI 703 with Torque Bracket and 12 Pin M23 Connector





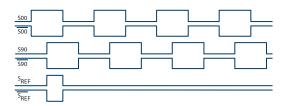
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Electronics

Square Wave Signals



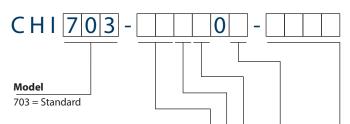
Sine Wave Signals

Sine waves are an alternative form of output signal. The analogue signal produces a unique amplitude for each position on the wave, allowing interpolation and very high resolutions. The interface 1 Vpp is often used in safety-critical applications where detection are required of extremely small movements.



Key Code

CHI 703



Shaft

 $12 = \emptyset 12$ mm through-going hollow shaft

 $14 = \emptyset 14$ mm through-going hollow shaft

16 = Ø16 mm through-going hollow shaft

 $20 = \emptyset 20$ mm through-going hollow shaft

 $25 = \emptyset 25$ mm through-going hollow shaft

 $01 = \emptyset 1$ inch through-going hollow shaft

 $58 = \emptyset 5/8$ inch through-going hollow shaft

 $34 = \emptyset 3/4$ inch through-going hollow shaft

Flange

2 = Torque bracket 120°

9 = Tether arm with insulation

Electronics

1 = TTL (supply 5 Vdc, output 5 Vdc)

5 = HCHTL (supply 9-30 Vdc, output 9-30 Vdc)

6 = HTL (supply 5-30 Vdc, output 5-30 Vdc)

7 = RS422 (supply 9-30 Vdc, output 5 Vdc)

9 = Sinusoidal 1 Vpp (supply 5 Vdc, output 1 Vpp)

Connection

2 = M23 connector $1\overline{2}$ pin (CCW)

7 = MS connector 7 pin

8 = MS connector 10 pin

9 = Cable (specify length upon order)

Resolution

10, 50, 100, 150, 200, 256, 300, 360, 400, 500, 512, 600, 720, 800, 900, 1000, 1024, 1200, 1250, 1800, 2000, 2048, 2400, 2500, 3072, 4000, 4096, 4800, 5000, 6350, 10000 ppr

Sinusodial 1 Vpp: 1024, 2048 ppr Other resolutions available upon request.

Output Interfaces (Supply Voltage):

Interface	TTL	RS422	HTL	HCHTL
Supply	5 Vdc	9-30 Vdc	5-30 Vdc	9-30 Vdc
Output signal	5 Vdc	5 Vdc	5-30 Vdc	9-30 Vdc
Suitable for	Low frequencies over	High frequencies over	High frequencies over	Medium frequencies
	short cables	long cables	medium-length cables	over long cables
Max frequency	200 kHz	200 kHz	200 kHz	200 kHz
Max cable length	50 m at 50 kHz	1000 m at 200 kHz	100 m at 100 kHz	350 m at 100 kHz

