

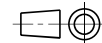
LS 623

Incremental linear encoder for measuring steps of 10 µm and 5 µm (0.0005 in. and 0.0002 in.)

Specifications	LS 623																														
Measuring standard Grating period	Glass scale with DIADUR graduation 20 µm																														
Accuracy grade	± 10 µm (± 0.0004 in.)																														
Measuring length ML in mm inches	<table border="1"> <tbody> <tr> <td>170, 6,7,</td> <td>220, 8,6,</td> <td>270, 10,6,</td> <td>320, 12,6,</td> <td>370, 14,5,</td> <td>420, 16,5,</td> </tr> <tr> <td>470, 18,5,</td> <td>520, 20,5,</td> <td>620, 24,4,</td> <td>720, 28,</td> <td>770, 30,</td> <td>820, 32,</td> </tr> <tr> <td>920, 36,</td> <td>1020, 40,</td> <td>1140, 44,</td> <td>1240, 48,</td> <td>1340, 52,</td> <td>1440, 56,</td> </tr> <tr> <td>1540, 60,</td> <td>1640, 64,</td> <td>1740, 68,</td> <td>1840, 72,</td> <td>2040, 80,</td> <td>2240, 88,</td> </tr> <tr> <td>2440, 96,</td> <td>2640, 104,</td> <td>2840, 112,</td> <td>3040, 120</td> <td></td> <td></td> </tr> </tbody> </table>	170, 6,7,	220, 8,6,	270, 10,6,	320, 12,6,	370, 14,5,	420, 16,5,	470, 18,5,	520, 20,5,	620, 24,4,	720, 28,	770, 30,	820, 32,	920, 36,	1020, 40,	1140, 44,	1240, 48,	1340, 52,	1440, 56,	1540, 60,	1640, 64,	1740, 68,	1840, 72,	2040, 80,	2240, 88,	2440, 96,	2640, 104,	2840, 112,	3040, 120		
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Reference marks	<p>LS 623 Standard: One reference mark at midpoint Special versions: Several reference marks at 50 mm intervals starting from midpoint of measuring length; or one reference mark at any desired position</p> <p>LS 623C Distance-coded, absolute position value available after max. 20 mm traverse</p>																														
Max. traversing speed	60 m/min (2362 ipm)																														
Vibration (55 to 2000 Hz) Shock (11 ms)	30 m/s ² (IEC 60068-2-6) 200 m/s ² (IEC 60068-2-27)																														
Required moving force	≤ 10 N																														
Protection (IEC 60529)	IP 53 when installed as per instructions IP 64 with compressed air																														
Operating temperature	0 to 50 °C (32 to 122 °F)																														
Weight	0.7 kg + 2 kg/m measuring length																														
Power supply	5 V ± 5 % / < 170 mA (with no load)																														
Output signals/Signal period	□ TTL/20 µm																														
Electrical connection	Sep. adapter cable (1 m/3 m/6 m) with or without armor (see <i>Electrical connection</i>)																														
Cable length to subsequent electronics	50 m (164 ft) max.																														

Dimensions

in mm



DIN ISO 8015
ISO 2768 - m H

①, ⑩,

⑩ = Mounting options

F = Machine guideway

P, Q = Gauging points for alignment

⊙ = Required mating dimensions

⊙ = Compressed air inlet

⊙ = Reference mark position LS 623

⊙ = Reference mark position LS 623 C

⊙ = Beginning of measuring length (ML)

