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	170, 220, 6.7, 8.6, 10.6, 12.6, 14.5, 16.5, 470, 520, 10.6, 12.6, 14.5, 16.5, 470, 520, 18.5, 20.5, 24.4, 28, 30, 32, 920, 1020, 36, 40, 44, 48, 52, 56, 1540, 1640, 1740, 1840, 2040, 2240,	
	1040, 1040, 1740, 1040, 2040, 22 107 60, 64, 68, 72, 80, 88, 2440, 2640, 2840, 3040 96, 104, 112, 120	
Reference marks LS 623 LS 623C	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 Distance-coded, absolute position value available after max. 20 mm traverse	
Max. traversing speed	60 m/min (2362 ipm)	
Vibration (55 to 2000 Hz) Shock (11 ms)	30 m/s ² (IEC 60 068-2-6) 200 m/s ² (IEC 60 068-2-27)	
Required moving force	≤ 10 N	
Protection (IEC 60 529)	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	□	
Electrical connection Cable length to subsequent electronics	Sep. adapter cable (1 m/3 m/6 m) with or without armor (see <i>Electrical connection</i>) 50 m (164 ft) max.	

Dimensions	
Dilliguations	
in mm	
DIN ISO 8015 ISO 2768 - m H	
150 2700 11111	
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①, ①,
 ② = Mounting options
 F = Machine guideway
 P, Q = Gauging points for alignment
 ③ = Required mating dimensions
 ③ = Compressed air inlet
 ⑥ = Reference mark position LS 623
 ③ = Reference mark position LS 623 C
 ⑤ = Beginning of measuring length (ML)