M series

LINEAR



General specification					
Measurement	By means of graduated glass scale, with 20 μm etching pitch				
Maximum speed	60 m/min				
Maximum vibration	3 g				
Moving thrust	< 5 N				
Operating temperature	0 °C50 °C				
Storage temperature	-20 °C70 °C				
Weight	0.58 kg + 0.6 kg/m				
Relative humidity	2080%				
Protection	IP 53 (standard) IP 64 (DIN 40050) using pressurized air in linear encoders at 0.8 \pm 0.2 bar				
Reader head	With detachable cable connector (except MKT and MKX)				

Designed for applications on standard machines with travels up to 1540 mm. With reference marks every 50 mm or distance-coded and detachable cable connector built into the reader head (except the MK series where the reader head comes standard with a 3-meter attached cable).

Measuring lengths in millimeters

40 (*) • 70 • 120 • 140 • 170 • 220 • 270 • 320 • 370 420 • 470 • 520 • 620 • 720 • 770 • 820 • 920 • 1020 1140 • 1240 • 1340 • 1440 • 1540 (*) On MT and MX models.

Specific characteristics							
	MT MOT	MTD	МКТ	MX MOX	MKX	MP MOP	
Accuracy	± 10 µm			± 5 μm	± 10 μm	± 5 μm	
Resolution	5 μm			1 µm		Up to 0.1 µm	
Reference marks (I_0)	MKT and MKX: I_0 every 50 mm MT, MTD, MX and MP: I_0 every 50 mm MOT, MOX and MOP: Distance-coded I_0						
Output signals				LT TTL differential		\sim 1 Vpp	
T period of output signals	20 µm			4 µm		20 µm	
Limit frequency	50 kHz			250 kHz		50 kHz	
Maximum cable length	20 m	50 m	20 m	50	m	150 m	
Supply voltage		5V ±10%, <100 mA (without load)					

