

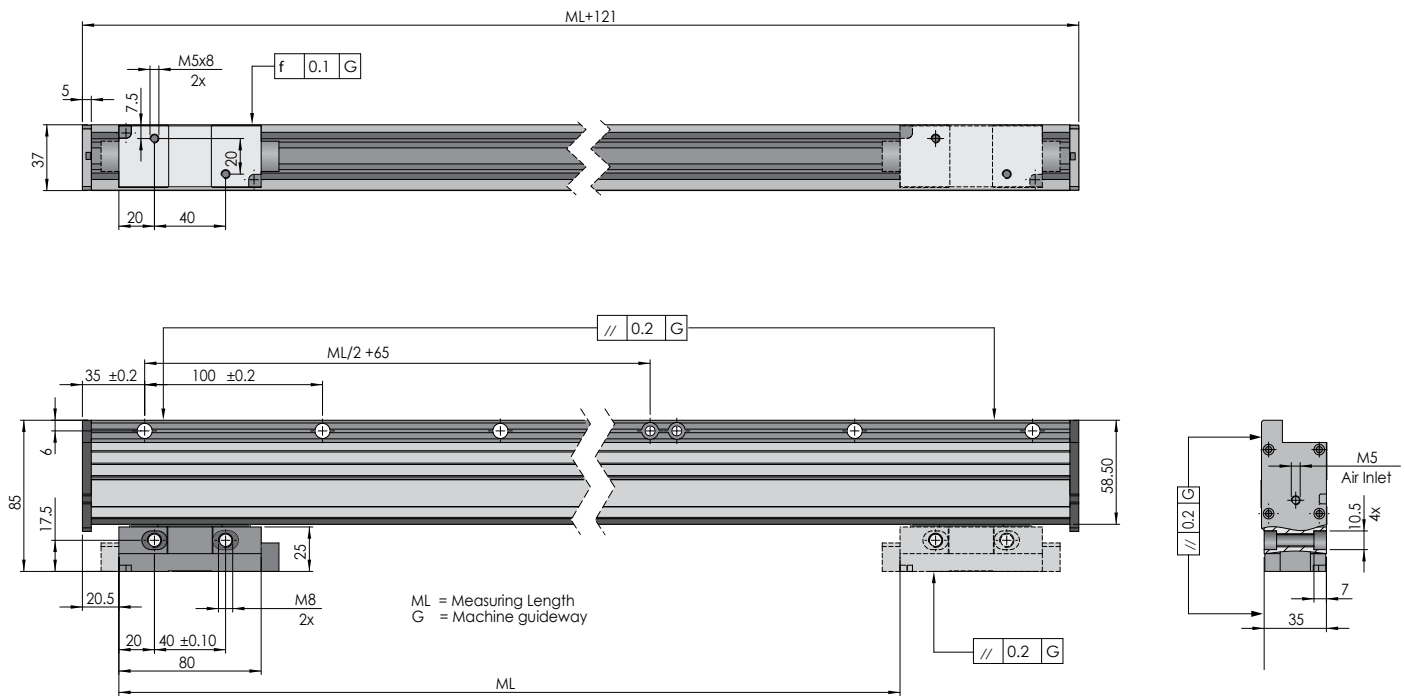
LT 30 series

- 20 um Graduated Glass
- Resolutions down to 0.25um
- Measuring length up to 3,040mm
- Thermal expansion mounts



Compatible with:

- Heidenhain LS 100 Series - LS 106, LS 176, LS 177, LS 186, LS 187
- Fagor G and G2 Series



LT 30 series

	LT 3001	LT 3005	LT 3010	LT 3020	LT 3000
Graduation period	20 um				
Resolution/measuring step	5 um	1 um	0.5 um	0.25um	depends on external circuitry
Available measuring lengths	140, 240, 340, 440, 540, 640, 740, 840, 940, 1040, 1140, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 2040, 2240, 2440, 2640, 2840, 3040				
Output Signal	TTL/RS422				1 Vpp
Max. output frequency	≥ 50 kHz	≥ 250 kHz	≥ 500 kHz	≥ 1 MHz	≥ 50 kHz
Max. mechanical speed	1 m/s				
Accuracy grade	5 um/meter				
Reference mark	Periodic* (@ 50mm spacing) or Distance Coded				
Supply voltage	5 V ± 5%				
Supply current (without load)	≤ 120 mA				
Outlet type	Cable				
Max. cable length	100 m				150 m
Environmental protection	IP53 (IEC 60529), IP64 with optional air inlet				
Operating temperature range	-0°C...+50°C				
Storage temperature range	-20°C...+70°C				
Humidity	98% (non-condensing)				
Vibration (55 ÷ 2000 Hz)	≤ 150 m/s ² (IEC 60068-2-6)				
Shock (6 ms)	≤ 300 m/s ² (IEC 60068-2-27)				
Weight (without cable)	0.4kg + 2.7 kg per meter of measuring length				
Required moving force	≤ 5 N				

*Not recommended for new designs

**combined length from encoder to interpolator box and from the interpolator to controller

How to Order	example: LT3011-320P	
LT 30XX	-XXXX	X
Model	Measuring Length	Reference Mark
<ul style="list-style-type: none"> • LT3000 • LT3001 • LT3002 • LT3005 • ... 	<ul style="list-style-type: none"> • 70, 140, 240, 340, 440, 540, 640, 740, 840, ... 	<ul style="list-style-type: none"> • P - periodic • D - distance coded