

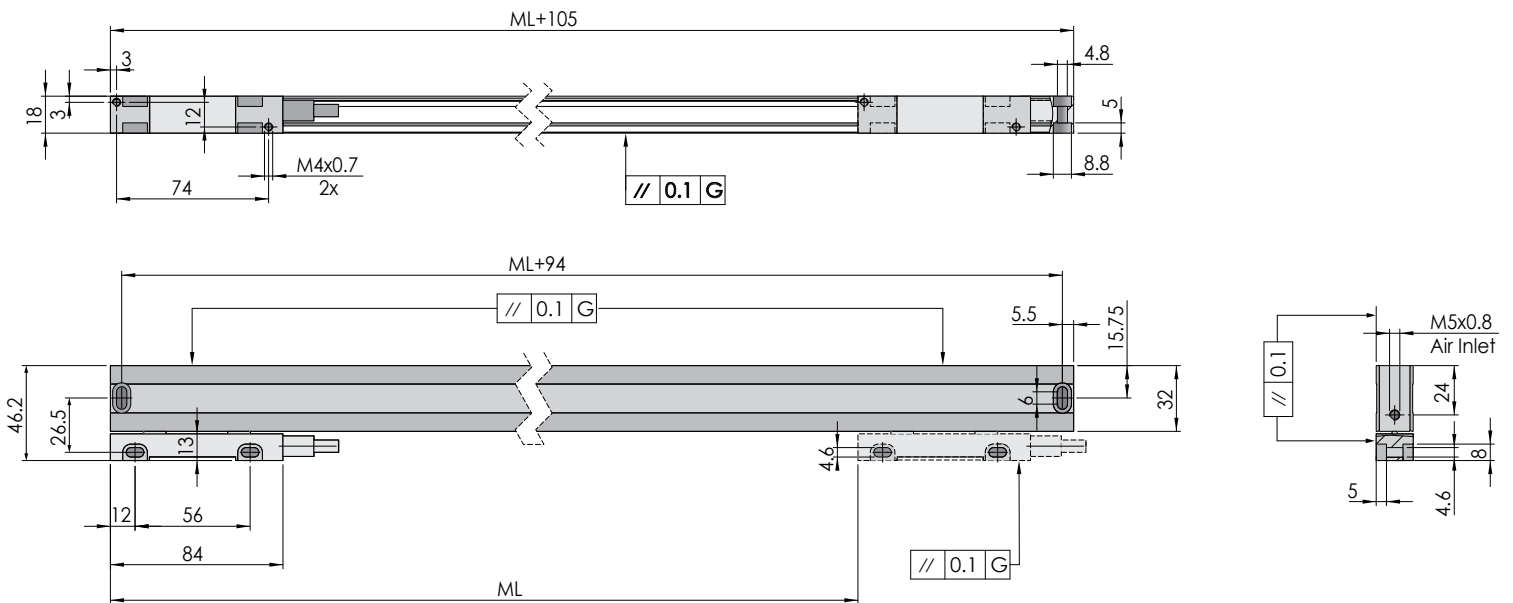
## LT 10 series

- 20 um Graduated Glass
- Resolutions down to 0.5um
- Measuring length up to 2,040mm
- End point mounting up to 1,240mm



### Compatible with:

- Heidenhain LS 300 Series - LS303, LS 323, LS 328, LS 378, LS 388
- Heidenhain LS 400 Series - LS 403
- Fagor M, SV and SV2 Series



ML = Measuring Length  
G = Machine guideway

# LT 10 series

	LT 1001	LT 1002	LT 1005	LT 1010	LT 1000	LT 1011
<b>Graduation period</b>	20 µm					
<b>Resolution/measuring step</b>	5 µm	2.5 µm	1 µm	0.5µm	depends on external circuitry	depends on external circuitry
<b>Available measuring lengths</b>	70 120 170 220 270 320 370 420 470 520 570 620 670 720 770 820 920 1020 1140 1240 1340* 1440* 1540* 1640* 1740* 1840* 2040*					
<b>Output Signal</b>	TTL/RS422				1 Vpp	11 µA
<b>Max. output frequency</b>	≥ 50 kHz	≥ 100 kHz	≥ 250 kHz	≥ 500 kHz	≥ 50 kHz	≥ 50 kHz
<b>Max. mechanical speed</b>	1 m/s					
<b>Accuracy grade</b>	5 µm/meter					
<b>Reference mark</b>	Periodic** (@ 50mm spacing) or Distance Coded					
<b>Supply voltage</b>	5 V ± 5%					
<b>Supply current (without load)</b>	≤ 120 mA					
<b>Outlet type</b>	Cable					
<b>Max. cable length</b>	100 m				150 m	5/25***m
<b>Environmental protection</b>	IP53 (IEC 60529), IP64 with optional air inlet					
<b>Operating temperature range</b>	-0°C...+50°C					
<b>Storage temperature range</b>	-20°C...+70°C					
<b>Humidity</b>	98% (non-condensing)					
<b>Vibration (55 ÷ 2000 Hz)</b>	≤ 100 m/s <sup>2</sup> (IEC 60068-2-6)					
<b>Shock (6 ms)</b>	≤ 300 m/s <sup>2</sup> (IEC 60068-2-27)					
<b>Weight (without cable)</b>	0.4kg + 0.7 kg per meter of measuring length					
<b>Required moving force</b>	≤ 4 N					

\*Mounting spar required

\*\*Not recommended for new designs

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

*How to Order* example: LT1005-470D

LT 10XX	-XXXX	X
<b>Model</b>	<b>Measuring Length</b>	<b>Reference Mark</b>
<ul style="list-style-type: none"> <li>• LT1000</li> <li>• LT1001</li> <li>• LT1002</li> <li>• LT1005</li> <li>• ...</li> </ul>	<ul style="list-style-type: none"> <li>• 70,120,170,220,270, 320, 370 ...</li> </ul>	<ul style="list-style-type: none"> <li>• P - periodic</li> <li>• D - distance coded</li> </ul>