

DG

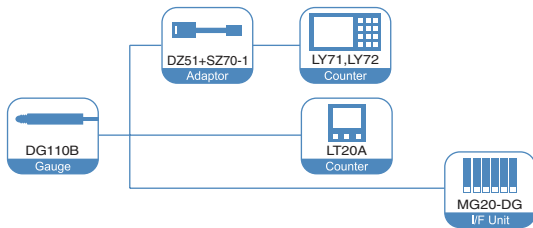
DG110B Series

High accuracy gauge with controllable measuring force

- High accuracy: 4 μm
- Resolution: 0.5 μm ● Measuring range: 110 mm / 4.33" ● Reduced measurement error
- Precision dual spindle support allows for a smooth spindle motion and virtually error free measurements.
- Reduced measuring force

The measuring force can be reduced to a minimum of 0.3 N in three selectable steps using the measuring balancer (option). The force is maintained constant regardless of spindle movement direction.

- Soft spindle return. A braking mechanism reduces spindle return speed, thereby eliminating the danger of damaging either the surface plate or the workpiece.

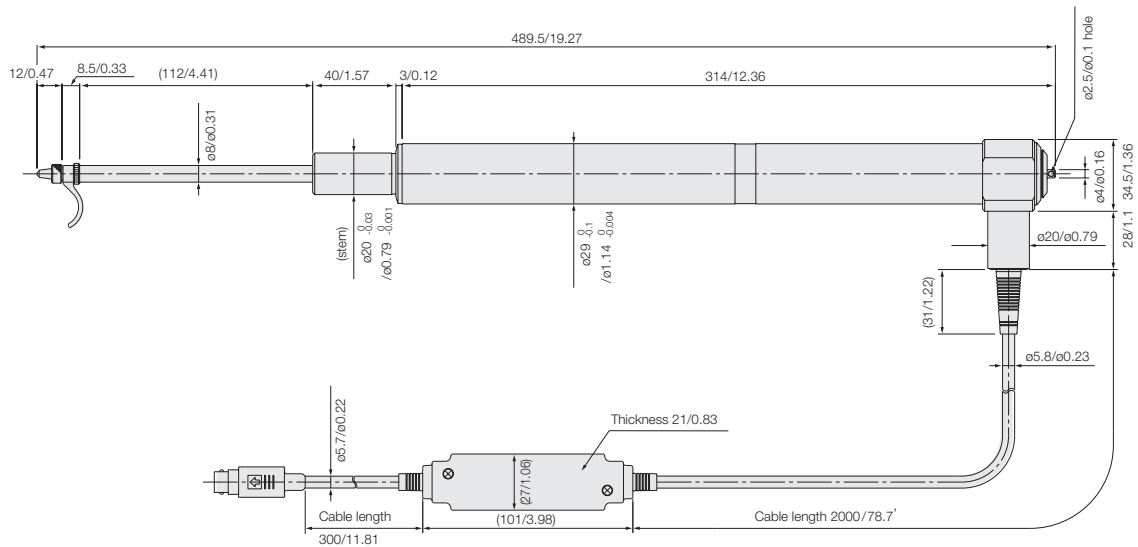


*Digital gauge stand DZ-531 and Measuring force balancer DZ-581 are option.



Digital Gauge

Dimensions



Unit : mm/inch

Specifications

Specifications	
Model	DG110B/BM/BE
Type	For Counter, A/B quadrature signal output type (See Page 26)
Measuring range	110 mm/ 4.33"
Resolution	0.5 μm
Measuring range force	Downward 1.55 \pm 0.15 N ²
Accuracy	4 μm
Operating temperature	0 °C to 50 °C / 32 °F to 122 °F
Storage temperature	-10 °C to 60 °C / 14 °F to 140 °F
Cable length	2 m/ 6.56'
Mounting stem diameter	ϕ 20 $\frac{0}{-0.03}$ mm/ ϕ 0.78" $\frac{0}{-0.0012}$ "
Feeler	Feeler tipped with ϕ 2.5 mm/ 0.098" dia. Carbide ball with M2.5p x 0.45 screw on fitting end (DZ-121)
Mass ^{*1}	Approx. 1150 g/ 2.54 lbs
Lift lever	DZ-161 (supplied)

*1 excl. cable unit and Interpolator unit. *2 The measurement force values given apply when DZ-581 measuring force balancer is not used.

By using a measuring force balancer (option), it is possible to reduce the measuring force to minimum of 0.3 N. The measuring force will be constant regardless of spindle position.