

# DG

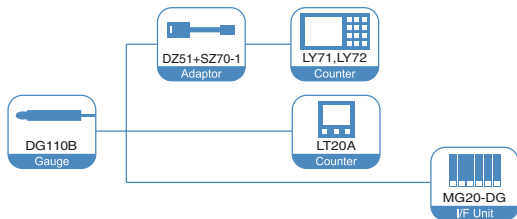
## DG110B Series

High accuracy gauge with controllable measuring force

- High accuracy: 4  $\mu\text{m}$
- Resolution: 0.5  $\mu\text{m}$
- 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.

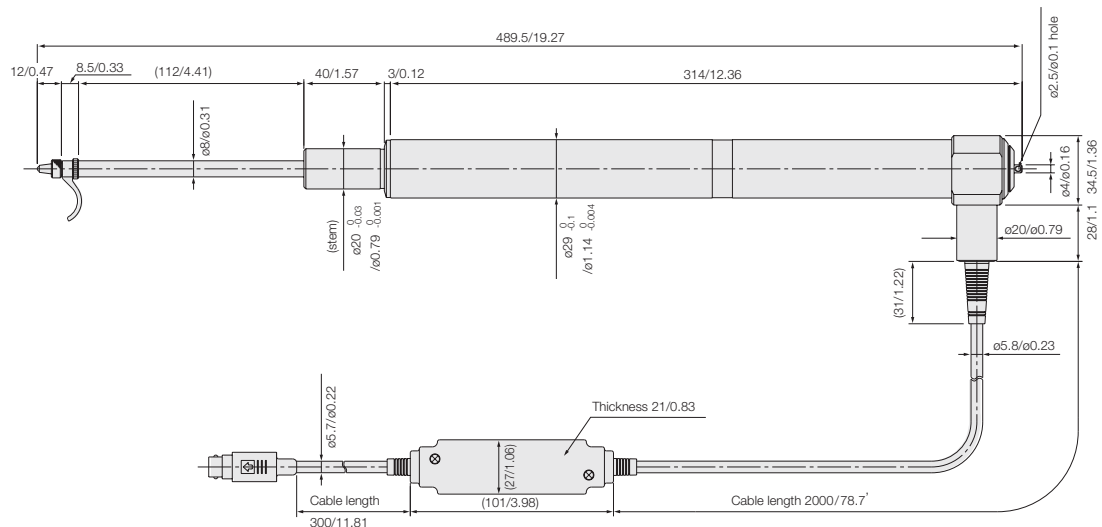


\*Digital gauge stand DZ-531 and Measuring force balancer DZ-581 are option.



**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 $\mu\text{m}$
Measuring range force	Downward 1.55 $\pm$ 0.15 N <sup>*2</sup>
Accuracy	4 $\mu\text{m}$
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	$\varnothing 20_{-0.03}^{0.00}$ mm/ $\varnothing 0.78''_{-0.0012}^{0.0012}$
Feeler	Feeler tipped with $\varnothing 2.5$ mm/ 0.098" dia. Carbide ball with M2.5p x 0.45 screw on fitting end (DZ-121)
Mass <sup>*1</sup>	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.