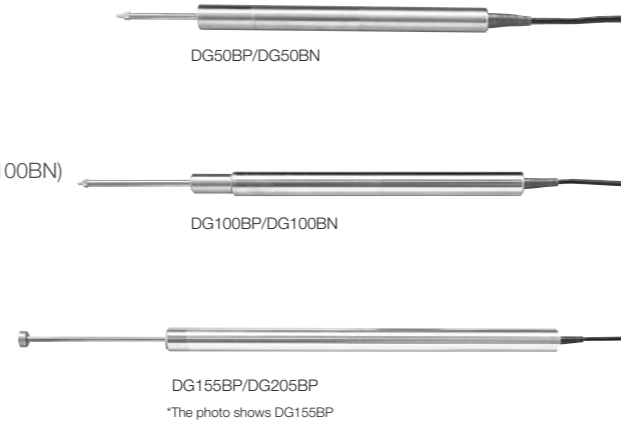
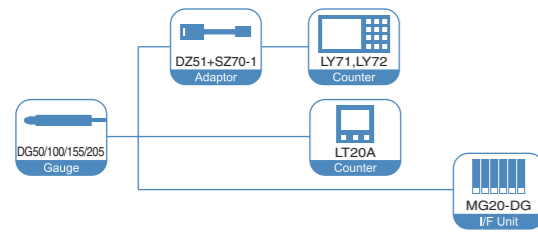


# DG

## DG50<sub>B</sub>, DG100<sub>B</sub>, DG155<sub>B</sub>, DG205<sub>B</sub> Series

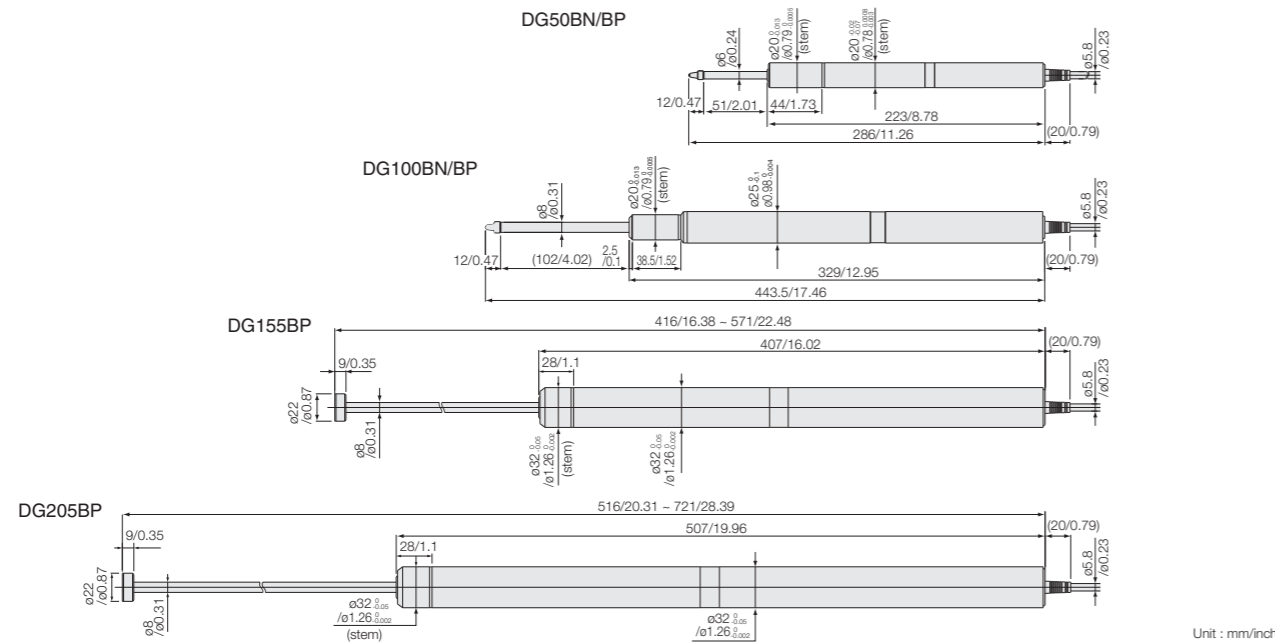
High accuracy, rugged gauges.  
Suitable for installation on machines.

- Excellent resistance to workshop conditions (BP : IP64). Resistant to oil, water, dust, vibrations. and shocks.
- Accuracy: 2 μm (DG50BP/50BN), 4 μm (DG100BP/100BN), 5 μm (DG155BP), 6 μm (DG205BP) ● Resolution : 0.5 μm
- Measuring range: 50 mm / 1.97", 100 mm / 3.94", 155 mm / 6.1" and 205 mm / 8.07"
- High measuring force (DG50BP/100BP) ● Low measuring force (DG50BN/100BN)
- Magnet feeler (DG155BP/205BP) ● Easy installation
- A variety of accessories available (See "Accessories for Gauges")



Digital Gauge

### Dimensions



Specifications						
Model	DG50BP BPM/BPE	DG50BN BNM/BNE	DG100BP BPM/BPE	DG100BN BNM/BNE	DG155BP BPM/BPE	DG205BP BPM/BPE
Type	For Counter, A/B quadrature signal output type (See Page 26)					
Measuring range	50 mm/ 1.97"		100 mm/ 3.94"		155 mm/ 6.1"	205 mm/ 8.07"
Resolution	0.5 μm					
Measuring range force	Upward	All direction: 6.2 N or less	All direction : 9.3 N or less	1.8 ± 0.65 N	2.7 ± 0.55 N	—
	Lateral					
	Downward					
Accuracy (at 20°C / 68°F)	2 μm		4 μm		5 μm	6 μm
Maximum Response speed	1m/s					
Operating temperature	0 °C to 50 °C / 32 °F to 122 °F (gauge)					
Storage temperature	-20 °C to 60 °C / -4 °F to 140 °F					
Cable length	5 m/ 16.4'					
Mounting stem diameter	ø 20 <sup>+0.013</sup> <sub>-0.005</sub> mm/ ø 0.79 <sup>+0.0005</sup> "			ø 32 (0/-0.05) mm/ ø 1.26* (0/-0.002")		
Feeler	carbide ball tipped feeler (DZ-122)		carbide ball tipped feeler (DZ-121)			
Magnetic feeler	—		—		Attraction force: 10 N(DZ181) Lateral slippage force: 2.7 N	
Protective design grade	Equivalent to IP64	—	Equivalent to IP64	—	Equivalent to IP 64	
Sealing (oil, water, dust)	Oil sealing, O-rings, Y-gaskets	—	Oil sealing, O-rings, Y-gaskets	—	Oil sealing, O-rings, Y-gaskets	
Mass*1	Approx.360 g/ 0.793 lbs		Approx.630 g/ 1.388 lbs		Approx.1100 g/ 2.425 lbs	Approx.1300 g/ 2.866 lbs
Lift lever	—	DZ-161 (option)	—	DZ-161 (option)	DZ-161 (option)	
Air lifter	DZ174-010 (option)					

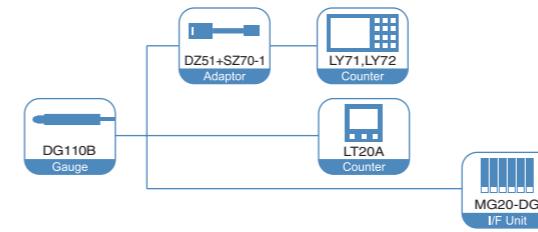
DG155BP/205BP does not include the spring. \*1 excl. cable unit and interpolator unit \*2 Tubing for compressed air can be attached.

# DG

## DG110<sub>B</sub> 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.

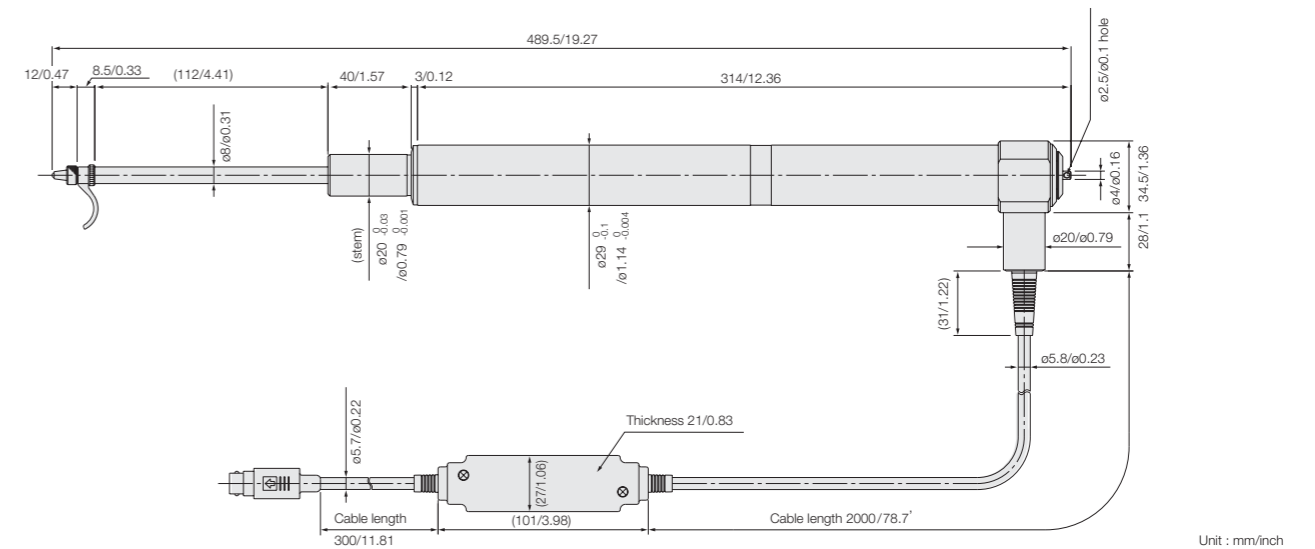


\*Digital gauge stand DZ-531 and Measuring force balancer DZ-581 are option.



Digital Gauge

### Dimensions



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 ± 0.15 N <sup>2</sup>
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	ø 20 <sup>+0.013</sup> <sub>-0.005</sub> mm/ø0.79 <sup>+0.0005</sup> "
Feeler	Feeler tipped with ø 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.