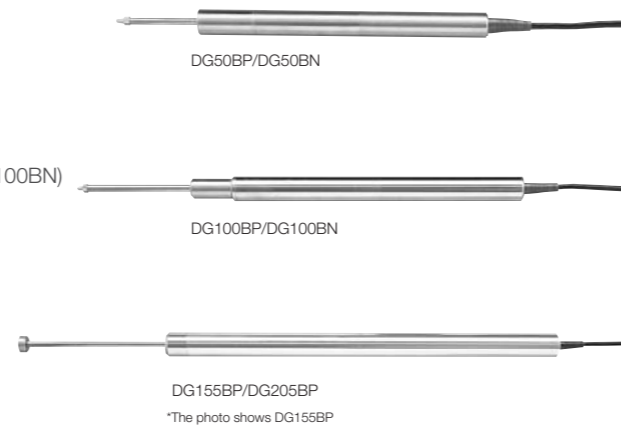
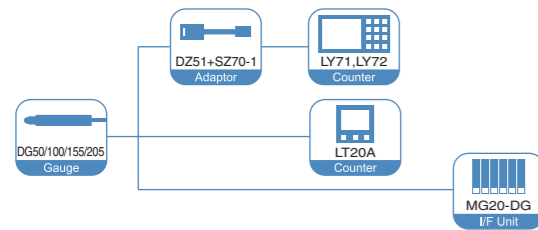


DG

DG50_B, DG100_B, DG155_B, DG205_B Series

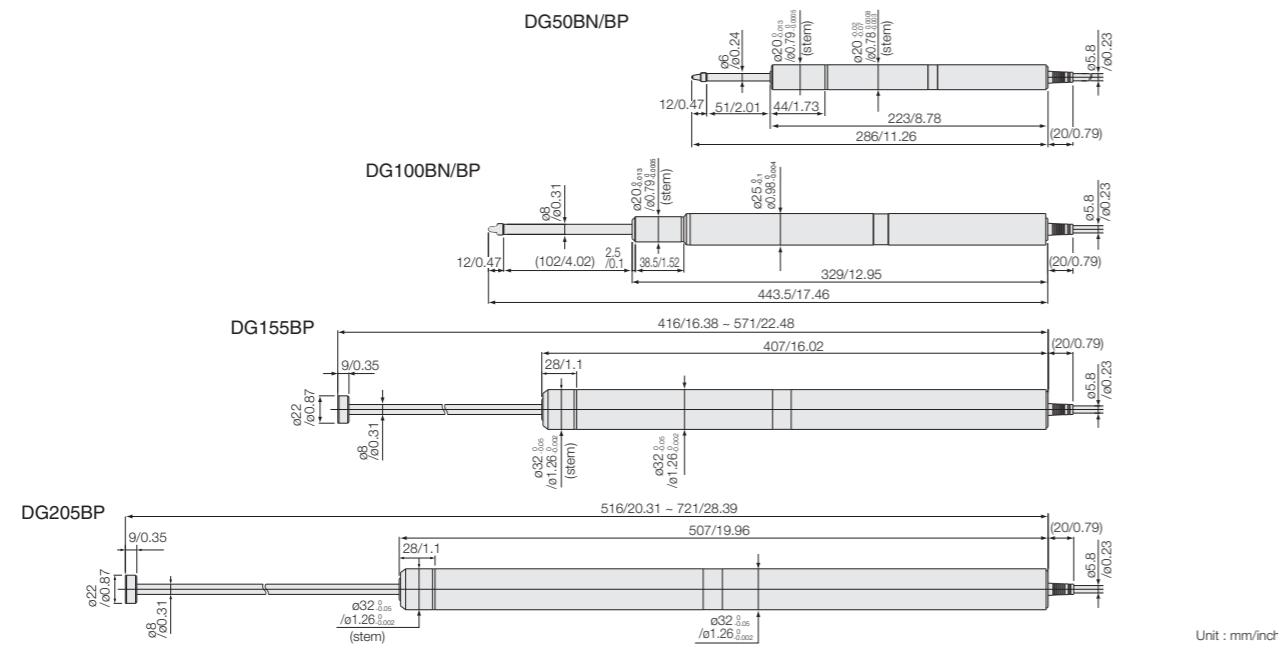
High accuracy, rugged gauges.
Suitable for installation on machines.

- 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 ^{+0.013} _{-0.005} mm/ ø 0.79 ^{+0.0005} " | | | 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) | | | | | |

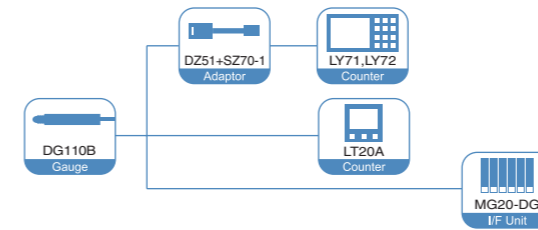
DG155BP/205BP does not included the spring. *1 excl. cable unit and interpolator unit *2 Tubing for compressed air can be attached.

DG

DG110_B 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.

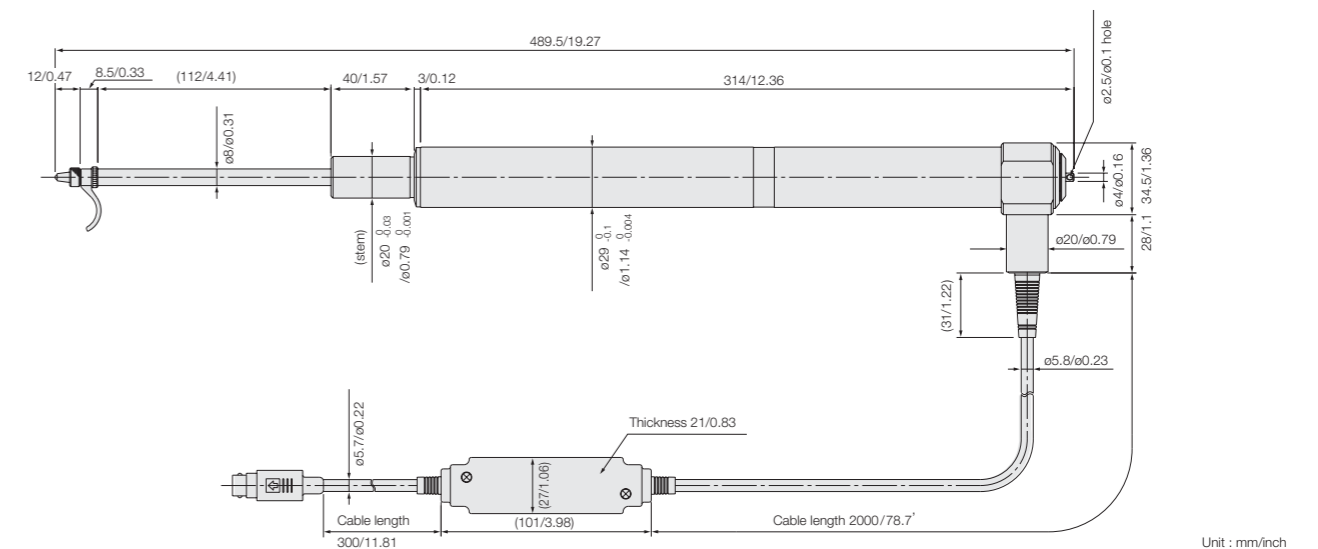


*Digital gauge stand DZ-531 and Measuring force balancer DZ-581 are option.



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 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 | ø 20 ^{+0.013} _{-0.005} mm/ø0.78 ^{+0.0005} " |
| 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.