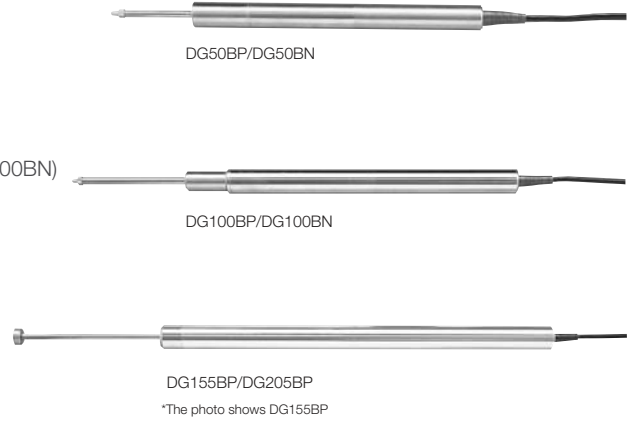
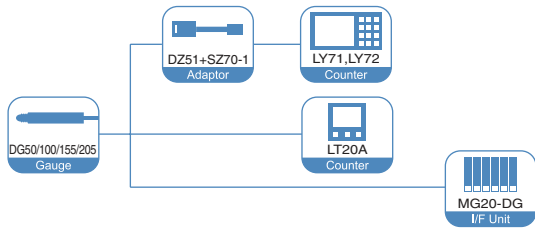


DG

DG50_B, DG100_B, DG155_B, DG205_B Series

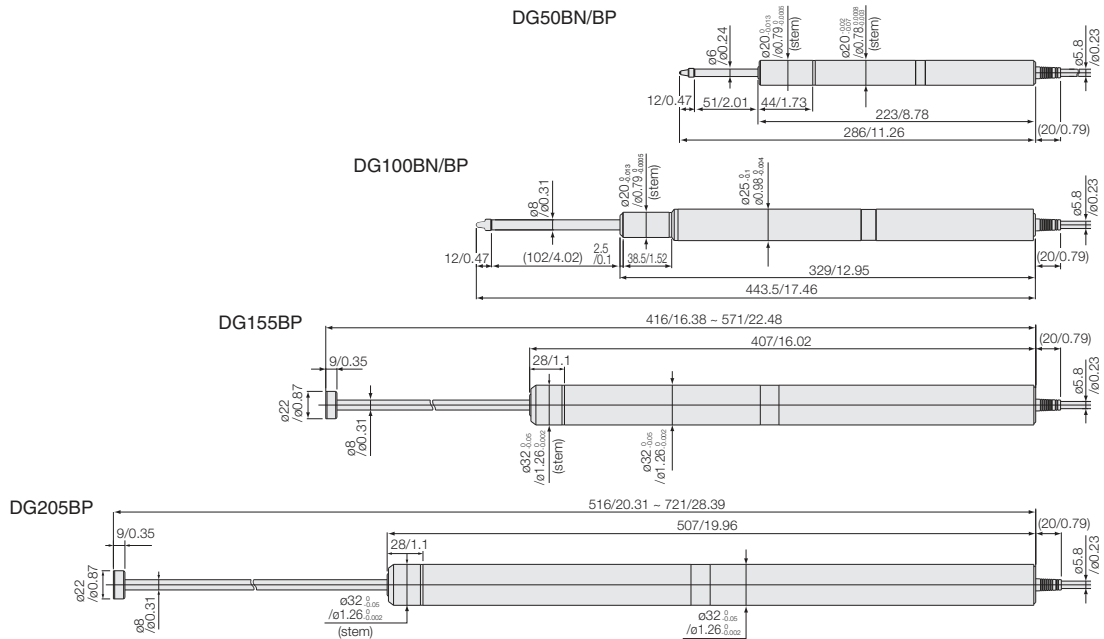
High accuracy, rugged gauges.
Suitable for installation on machines.

- 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 | 0.9 ± 0.4 N 1.3 ± 0.5 N | 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 _{0.13} mm / ø 0.79 ⁰ _{-0.0005} " | | | | | |
| 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) | |
| 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.