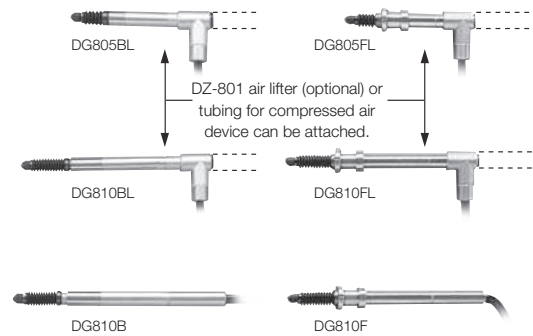
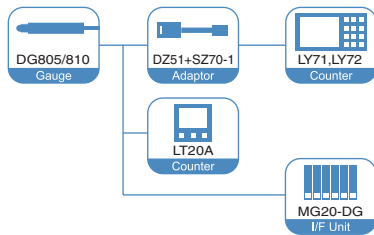


DG

DG805 Series, DG810 Series

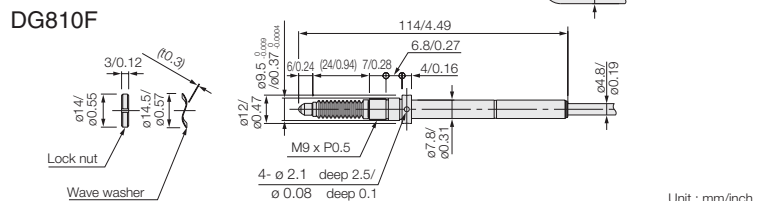
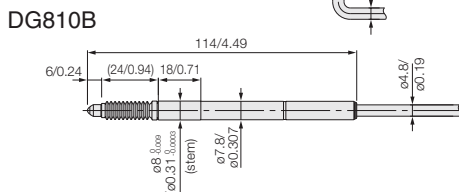
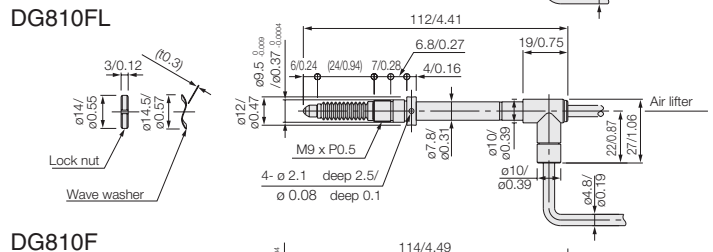
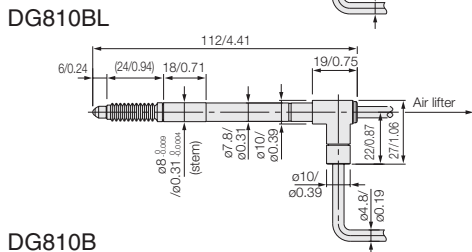
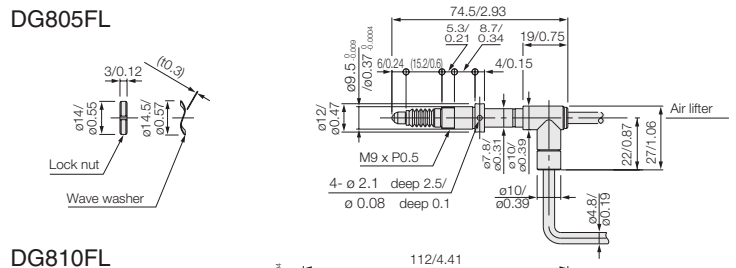
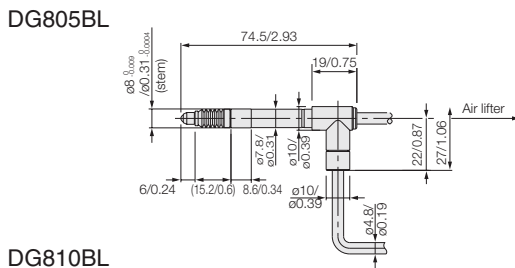
High accuracy, compact, and slim gauges suitable for installation on machines.

- Magnetic principle • Excellent resistance to workshop conditions. Resistant to oil, water, dust, vibration, and shock. • Accuracy : $2 \mu\text{m}$
- Resolution : $0.5 \mu\text{m}$ • Measuring range: $5.2 \text{ mm} / 0.20''$ and $10 \text{ mm} / 0.39''$
- Compact and slim: $\varnothing 8 \text{ mm} / \varnothing 0.31''$ (outer diameter)
 $74.5 \text{ mm} / 2.93''$ (overall length) (DG805)
- Low measuring force
- Spindle can be moved vertically with an air pressure device (DG805BL/FL, DG810BL/FL).
- Dustproof bellows (standard).
- Easy installation. Flange type gauges also available.



Digital Gauge

Dimensions



Unit : mm/inch

*Please refer to p54 for the details of the screw.

Specifications

| Model | DG805BL / FL / BLM / BLE / FLM / FLE | DG810B / F / BM / BE / FM / FE | DG810BL / FL / BLM / BLE / FLM / FLE |
|---------------------------|--|--------------------------------|--------------------------------------|
| Type | For Counter, A/B quadrature signal output type (See Page 26) | | |
| Measuring range | 5.2 mm / 0.20" | | 10 mm / 0.39" |
| Resolution | 0.5 μm | | |
| Measuring range force | Upward | 0.35 \pm 0.25 N | 0.4 \pm 0.3 N |
| | Lateral | 0.4 \pm 0.25 N | 0.5 \pm 0.3 N |
| | Downward | 0.45 \pm 0.25 N | 0.6 \pm 0.3 N |
| Accuracy (at 20°C / 68°F) | 2 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 | $\varnothing 8^{+0.009}_{-0.009} \text{ mm} / \varnothing 0.31^{+0.0004}_{-0.0004}''$ F type: $\varnothing 9.5^{+0.009}_{-0.009} \text{ mm} / \varnothing 0.37^{+0.0004}_{-0.0004}''$ | | |
| Feeler | Feeler tipped with $\varnothing 3 \text{ mm} / 0.12''$ dia. Carbide ball with M2.5 x 0.45 screw on fitting end (DZ-123) | | |
| Mass*1 | Approx.20 g / 0.71 oz | | Approx.40 g / 1.41 oz |
| Air lifter | Air lifter DZ-801 mountable*2 | — | Air lifter DZ-801 mountable*2 |

*1 excl. cable unit and Interpolator unit.

*2 Tubing for compressed air device can be attached.