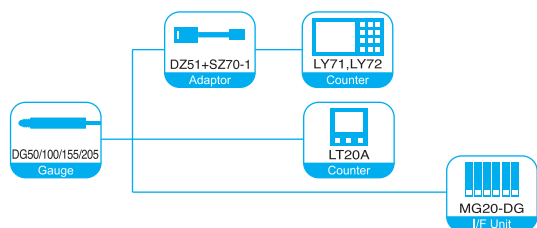


DG

DG50_B, DG100_B, DG155_B, DG205_B Series

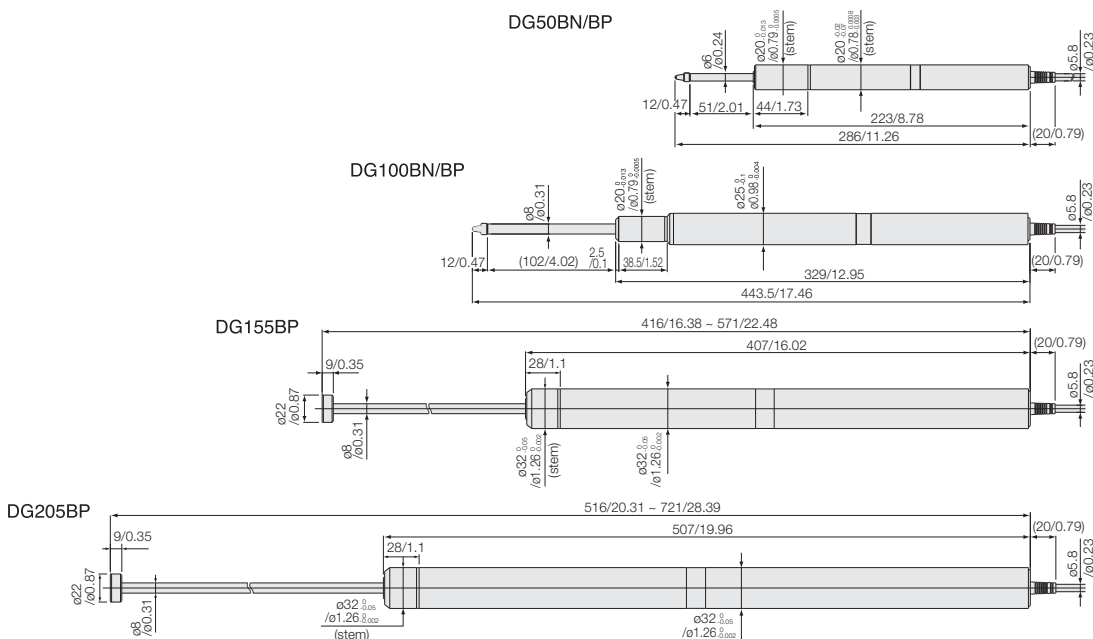
High accuracy, rugged gauges.
Suitable for installation on machines.

- Excellent resistance to workshop conditions (BP : IP64).
Resistant to oil, water, dust, vibrations. and shocks.
- Accuracy: $\pm 1 \mu\text{m}$ (DG50BP/50BN), $\pm 2 \mu\text{m}$ (DG100BP/100BN),
 $\pm 2.5 \mu\text{m}$ (DG155BP), $\pm 3 \mu\text{m}$ (DG205BP) ● Resolution : $0.5 \mu\text{m}$
- 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



Unit : mm/inch

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 15)					
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		—	—
	Lateral		—		—		
	Downward		0.9 ± 0.4 N		1.8 ± 0.65 N		
Accuracy (at 20°C / 68°F)		± 1 μm	1.3 ± 0.5 N	± 2 μm	2.7 ± 0.55 N	± 2.5 μm	± 3 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 _{-0.013} mm/ ø 0.79 ⁰ _{-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.