

# 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")



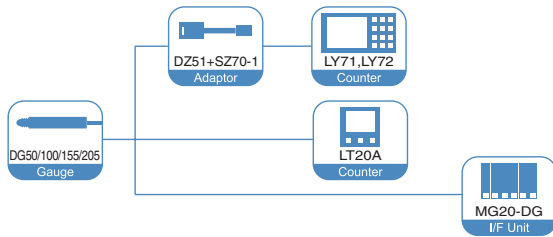
DG50BP/DG50BN



DG100BP/DG100BN

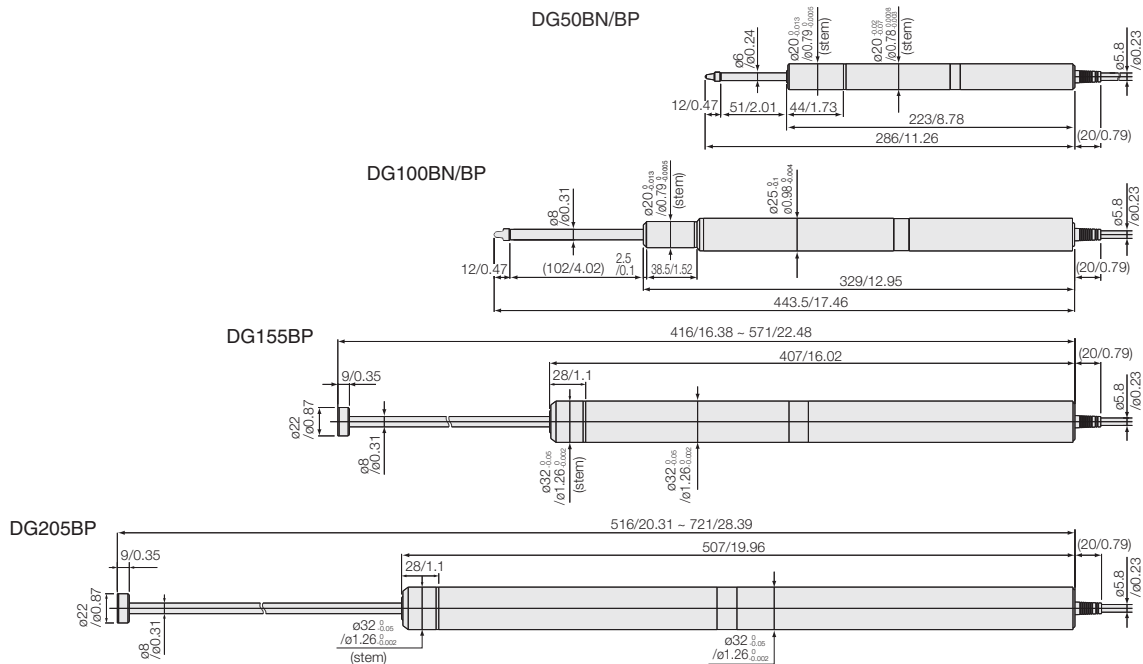


DG155BP/DG205BP  
\*The photo shows DG155BP



## 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 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	—	—
	Lateral		0.9 ± 0.4 N		1.8 ± 0.65 N	
	Downward		1.3 ± 0.5 N		2.7 ± 0.55 N	
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 20.013 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.