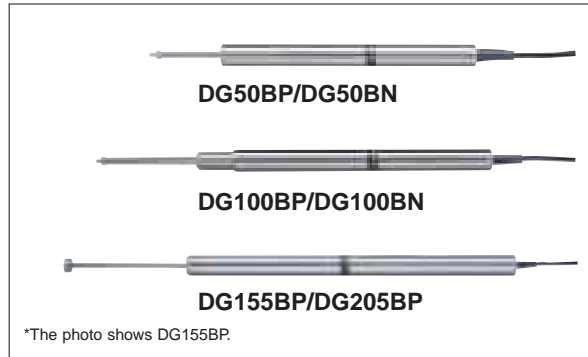


# Digital Gauge

# DG50B DG100B DG155B DG205B

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

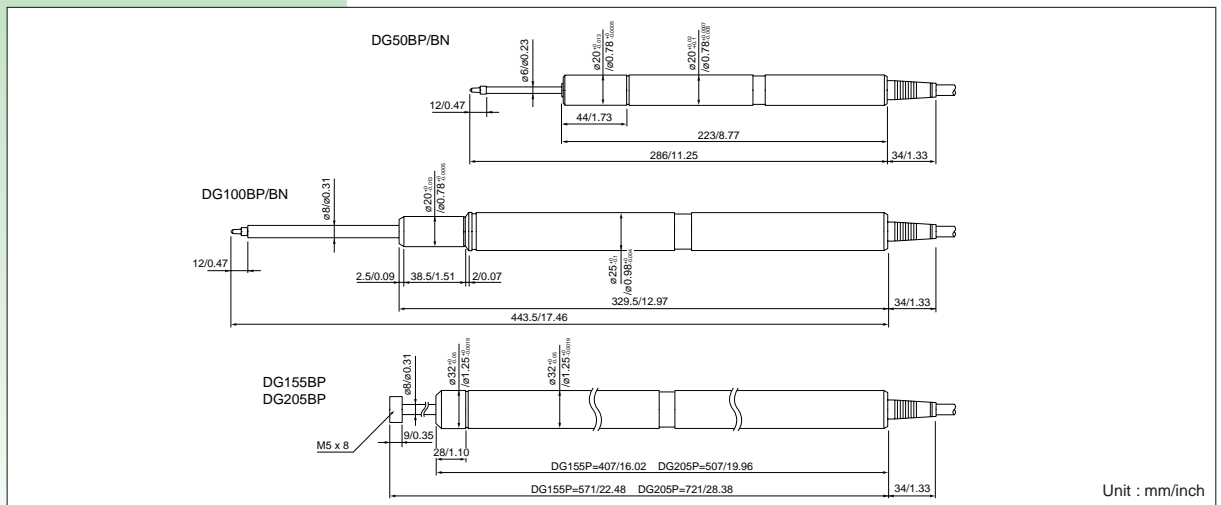
- Magnetic principle
- Excellent resistance to workshop conditions (BP: IP64). Resistant to oil, water, dust, vibrations and shocks.
- Accuracy:  $\pm 1 \mu\text{m}$  (DG50BP/50BN),  $\pm 2 \mu\text{m}$  (DG100BP/100BN),  $\pm 2.5 \mu\text{m}$  (DG155BP),  $\pm 3 \mu\text{m}$  (DG205BP)
- Resolution: 0.5  $\mu\text{m}$
- Measuring range: 50 mm / 1.96", 100 mm / 3.93", 155 mm / 6.10" 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")



## Specifications

Model	DG50BP	DG50BN	DG100BP	DG100BN	DG155BP	DG205BP
Measuring range	50 mm/ 1.96"		100 mm/ 3.93"		155 mm/ 6.10"	205 mm/ 8.07"
Resolution	0.5 $\mu\text{m}$					
Accuracy (at 20 °C /68 °F)	$\pm 1 \mu\text{m}$		$\pm 2 \mu\text{m}$		$\pm 2.5 \mu\text{m}$	$\pm 3 \mu\text{m}$
Measuring force	Upward	All directions: 6.2 N or less	—	All directions: 9.3 N or less	—	—
	Lateral		$0.9 \pm 0.4 \text{ N}$		$1.8 \pm 0.65 \text{ N}$	
	Downward		$1.3 \pm 0.5 \text{ N}$		$2.7 \pm 0.55 \text{ N}$	
Protective design grade	Equivalent to IP64		Equivalent to IP64		Equivalent to IP64	
Sealing (oil, water, dust)	Oil sealing,O-rings,Y-gaskets		Oil sealing,O-rings,Y-gaskets		Oil sealing, O-rings, Y-gaskets	
Mounting stem diameter	$\varnothing 20_{-0.013}^0 \text{ mm}$				$\varnothing 32_{-0.05}^0 \text{ mm}$	
Operating temperature	0 °C to 50 °C /32 °F to 122 °F					
Storage temperature	-20 °C to 60 °C / -4 °F to 140 °F					
Cable length	5m/16.4'					
Feeler	carbide ball tipped feeler (DZ122)		carbide ball tipped feeler (DZ121)		DZ181 carbide ball tipped feeler	
Magnetic feeler	—		—		Attraction force: 10N Lateral slippage force:2.7N	
Mass (excl. cable unit)	0.35 kg/ 0.77 lbs		0.6 kg/ 1.32 lbs		1.1 kg/ 2.43 lbs	1.3 kg/ 2.87 lbs
Option	None	Air lifter DZ-161 mountable	None	Air lifter DZ-161 mountable	None	

## Dimensions



Unit : mm/inch