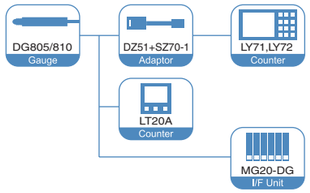
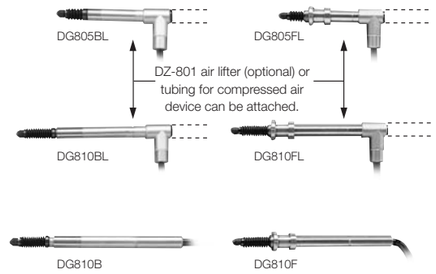
DG

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 μm
- Resolution : 0.5 μm ● Measuring range: 5.2 mm / 0.20" and 10 mm / 0.39"
- Compact and slim: ø8 mm / ø0.31" (outer diameter)
  74.5 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.

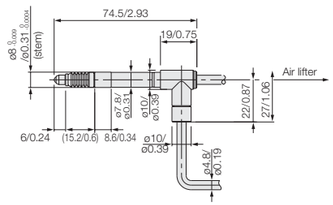




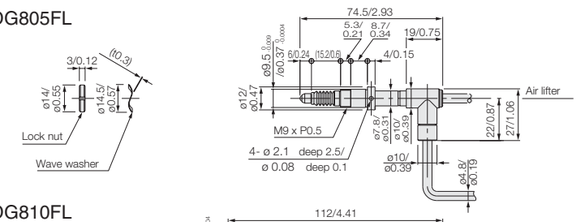
Digital Gauge

Dimensions

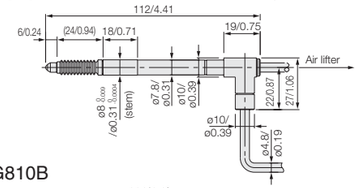
DG805BL



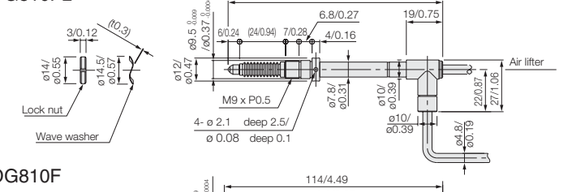
DG805FL



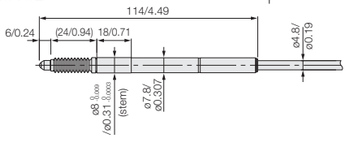
DG810BL



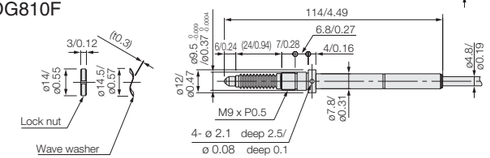
DG810FL



DG810B



DG810F



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 ± 0.25 N	0.4 ± 0.3 N	
	Lateral	0.4 ± 0.25 N	0.5 ± 0.3 N	
	Downward	0.45 ± 0.25 N	0.6 ± 0.3 N	
Accuracy (at 20℃ / 68℉)		2 μm		
Maximum Response speed		1m/s		
Operating temperature		0 ℃ to 50 ℃ / 32 ℉ to 122 ℉ (gauge)		
Storage temperature		-20 ℃ to 60 ℃ / -4 ℉ to 140 ℉		
Cable length		5 m/ 16.4'		
Mounting stem diameter		ø 8 mm/ ø 0.31" (-0.0004"); F type: ø 9.5 mm/ ø 0.37" (-0.0004")		
Feeler		Feeler tipped with ø 3 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

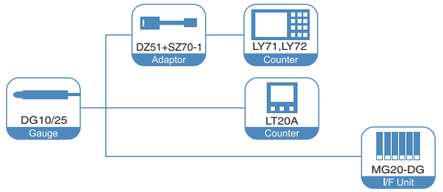
*1 excl. cable unit and Interpolator unit.
*2 Tubing for compressed air device can be attached.

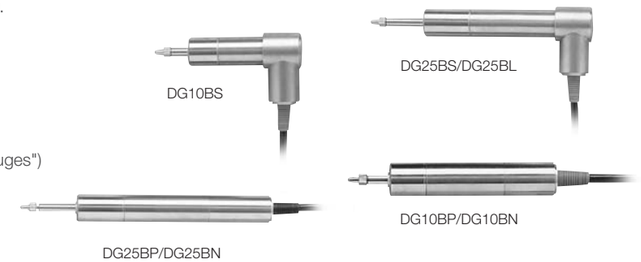
DG

DG10B, DG25B

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

- Excellent resistance to workshop conditions (BP/BS : IP64).
  Resistant to oil, water, dust, vibrations, and shocks.
- Accuracy : 2 μm ● Resolution : 0.5 μm
- Measuring range : 10 mm / 0.39" and 25 mm / 0.98"
- High measuring force (BP/BS)
- Low measuring force (BN/BL) ● Easy installation
- A variety of accessories available (See "Accessories for Gauges")

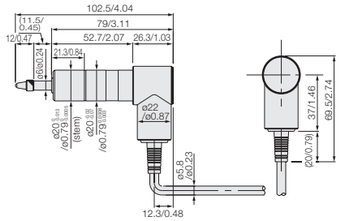




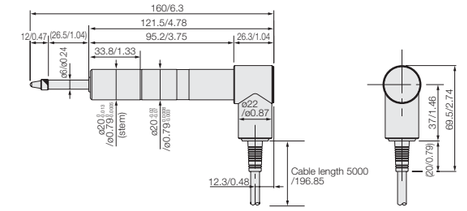
Digital Gauge

Dimensions

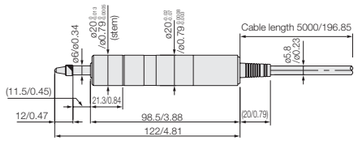
DG10BS



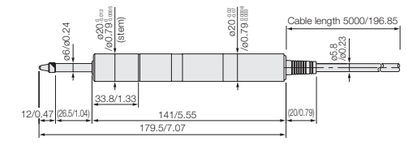
DG25BS/BL



DG10BN/BP



DG25BN/BP



Unit : mm/inch

Specifications

Model		DG10BP BPM / BPE	DG10BS BSM / BSE	DG10BN BNM / BNE	DG25BP BPM / BPE	DG25BS BSM/BSE	DG25BN BNM/BNE	DG25BL BLM/BLE
Type		For Counter, A/B quadrature signal output type (See Page 26)						
Measuring range		10 mm / 0.39"			25 mm/ 0.98"			
Resolution		0.5 μm						
Measuring range force	Upward	All direction: 4.9 N or less		0.3 ± 0.25 N	All direction: 4.9 N or less		0.4 ± 0.3 N	
	Lateral			0.6 ± 0.3 N			0.7 ± 0.35 N	
	Downward			0.8 ± 0.35 N			1 ± 0.4 N	
Accuracy (at 20℃ / 68℉)		2 μm						
Maximum Response speed		1m/s						
Operating temperature		0 ℃ to 50 ℃ / 32 ℉ to 122 ℉ (gauge)						
Storage temperature		-20 ℃ to 60 ℃ / -4 ℉ to 140 ℉						
Cable length		5 m/ 16.4' (-0.013 -0.005)						
Mounting stem diameter		ø 20 mm/ ø 0.79"						
Feeler		Feeler ø 2.5 mm carbide ball with M2.5p x 0.45 screw on fitting end (DZ-122)						
Protective design grade		Equivalent to IP64		—	Equivalent to IP64		—	
Sealing (oil, water, dust)		Oil sealing, O-rings, Y-gaskets		—	Oil sealing, O-rings, Y-gaskets		—	
Mass*1		Approx.230 g/ 0.507 lbs			Approx.300 g/ 0.661 lbs			
Lift lever		—		DZ-161 (option)	—		DZ-161 (option)	
Air lifter		DZ174-010 (option)*2			DZ174-025 (option)*2			

*1 excl. cable unit and Interpolator unit.
*2 Tubing for compressed air device can be attached.