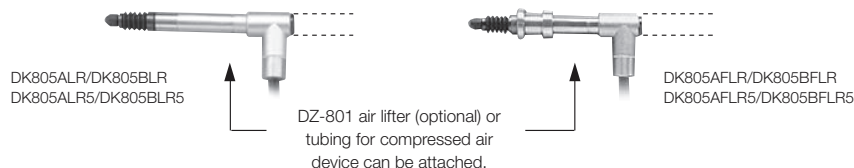
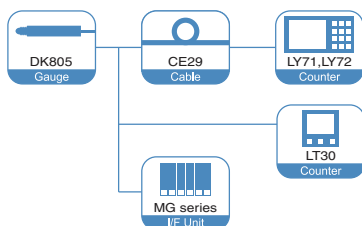


# DK

# DK805A/B Series

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

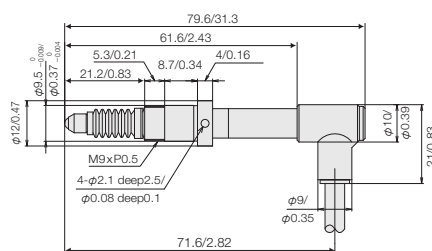
- Magnetic principle ● Excellent resistance to workshop conditions.  
Resistant to oil, water, dust, vibration, and shock. ● Accuracy : 1  $\mu\text{m}$ , 1.5  $\mu\text{m}$
- Resolution : 0.1  $\mu\text{m}$ , 0.5  $\mu\text{m}$  ● Measuring range: 5 mm
- Low measuring force
- Spindle can be moved vertically with an air pressure device
- Easy installation. Flange type gauges also available.



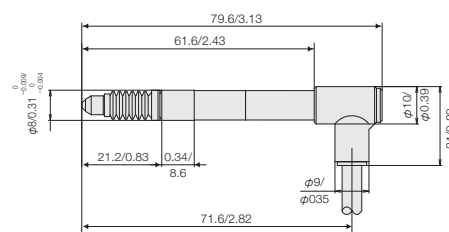
## Digital Gauge

### Dimensions

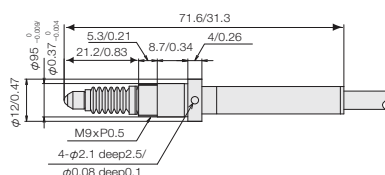
DK805AFLR/DK805BFLR  
DK805AFLR5/DK805BFLR5



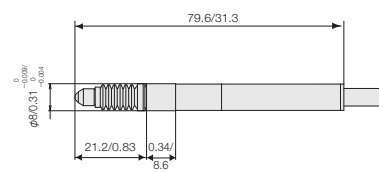
DK805ALR/DK805BLR  
DK805ALR5/DK805BLR5



DK805AFR/DK805BFR  
DK805AFR5/DK805BFR5



DK805AR/DK805BR  
DK805AR5/DK805BR5



Unit : mm/inch

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

Specifications DK805 Series			
Model	High-resolution models		General-purpose resolution model
	DK805AFR, DK805AFLR, DK805AR, DK805ALR	DK805BFR, DK805BFLR, DK805BR, DK805BLR	DK805AFR5, DK805AFLR5, DK805AR5, DK805ALR5 DK805BFR5, DK805BFLR5, DK805BR5, DK805BLR5
Output	A/B/Z phase voltage-differential line driver output (compliant with EIA-422) *Please see P17 Output Signal Phase Difference.		
Signal pitch	40 $\mu\text{m}$		
Resolution	0.1 $\mu\text{m}$		0.5 $\mu\text{m}$
Measuring range	5 mm (0.19")		
Accuracy (at 20°C/68°F)	1 $\mu\text{m}$		1.5 $\mu\text{m}$
Measuring force (at 20°C/68°F)	Downward: 0.45 $\pm$ 0.25 N Horizontal: 0.40 $\pm$ 0.25 N Upward: 0.35 $\pm$ 0.25 N		
Reference point	One location (at 1 mm/0.04" position of spindle movement)		
Maximum response speed	80 m/min	42 m/min	250 m/min
Air driving	Vacuum suction (DK805AFLR / DK805AFLR5 / DK805BFLR / DK805BFLR5 / DK805ALR / DK805BLR / DK805ALR5 / DK805BLR5)		
Vibration resistance (10 to 2000 Hz)	100 m/s <sup>2</sup>		
Shock resistance (11 ms)	1000 m/s <sup>2</sup>		
Protective structure	IP66 (not including interpolation box and connectors)		
Operating temperature	0°C to 50°C/32°F to 122°F		
Storage temperature	-20°C to 60°C/-4°F to 140°F		
Power supply voltage	DC +5 V $\pm$ 5%		
Power consumption	1 W		
Cable length <sup>*1</sup>	2.5 m/8.2"		
Diameter of stem	ø 9.50 $\pm$ 0.009/0.37 $\pm$ 0.0004 dia.		
Mass <sup>*2</sup>	Approx. 30 g/1.06 oz		
Feeler	Provided with a carbide ball tip (DZ-123) Mount screw M2.5		Provided with a steel ball tip Mount screw M2.5
Accessories	Installation spacer, Instruction Manual, Supplement		
Output cable length (up to the electronic section)	22 m/72.2' max.		

\*1 : Please refer to P10 DK 802 A/B about the extension cable (Option).

\*2 : The mass indicated is the total mass excluding the cable and interpolation box.