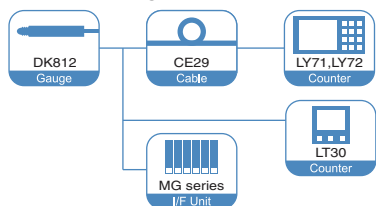


DK812A/B Series

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

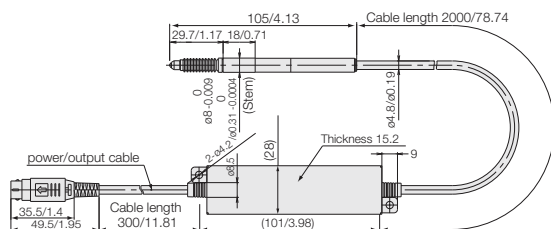
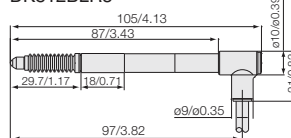
- Measuring range:12 mm ● Accuracy:1 μm , 1.5 μm ● Resolution: 0.1 μm , 0.5 μm
- Max.response speed:80m/min (Resolution: 0.1 μm)
250m/min (Resolution: 0.5 μm)
- Built-in reference point ● Excellent resistance to workshop conditions.
- Robust design for harsh environments.



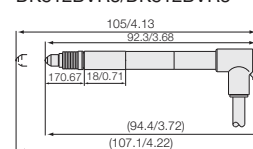
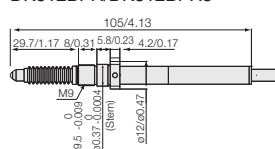
Digital Gauge

Dimensions

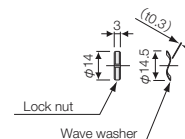
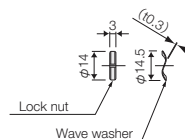
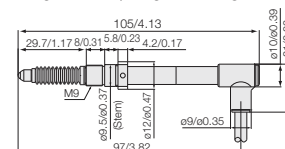
DK812AR/DK812AR5/DK812BR/DK812BR5

DK812ALR/DK812ALR5/DK812BLR/
DK812BLR5

DK812AVR/DK812AVR5
DK812BVR5/DK812BVR5

DK812AFR/DK812AFR5
DK812BFR/DK812BFR5

DK812AFLR/DK812AFLR5
DK812ABLR/DK812BFLR5



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

Specifications DK812 Series

Model	High-resolution models		General-purpose resolution models	
	DK812AR, DK812ALR, DK812AFR, DK812AFLR, DK812AVR	DK812BR, DK812BLR, DK812BFR, DK812BFLR, DK812BVR	DK812AR5, DK812ALR5, DK812AFR5, DK812AFLR5, DK812AVR5	DK812BR5, DK812BLR5, DK812BFR5, DK812BFLR5, DK812BVR5
Output	A/B/Z phase voltage-differential line driver output (compliant with EIA-422)			
Signal pitch	40 μm			
Resolution	0.1 μm		0.5 μm	
Measuring range	12 mm (0.47")			
Accuracy (at 20°C / 68°F)	1 μm		1.5 μm	
Measuring force (at 20°C / 68°F)	Downward: 0.6 ± 0.3 N Horizontal: 0.5 ± 0.3 N Upward: 0.4 ± 0.3 N Air pressure of 0.03Mpa : 1N or less in all directions Air pressure of 0.04Mpa : 1.7N or less in all directions			
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	100 m/min
Air driving	Vacuum suction (DK812AFLR / DK812AFLR5 / DK812BFLR / DK812BFLR5) Pneumatic push type (DK812AVR / DK812AVR5 / DK812BVR / DK812BVR5)			
Vibration resistance (10 to 2000 Hz)	100m/s ²			
Impact resistance (11 ms)	1000m/s ²			
Protective structure	IP66 (not including interpolation box and connectors)			
Operating temperature	0°C to 50°C/32°C F to 122°F			
Storage temperature	-20°C to 60°C/-4°C°F to 140°F			
Power supply voltage	DC +5 V ±5%			
Power consumption	1 W			
Cable length*2	2.5 m/8.2'			
Diameter of stem	φ9.5 ⁰ _{-0.009} / 0.37 ⁰ _{-0.0004} dia., φ*8 / 0.31"dia. (Pneumatic push type)			
Mass*1	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	+P M4x5 screw (2pcs.). 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.