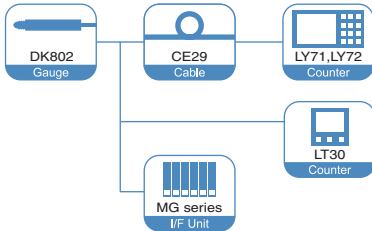


# DK

# DK802A/B Series

High resolution and High accuracy compact digital gauges.

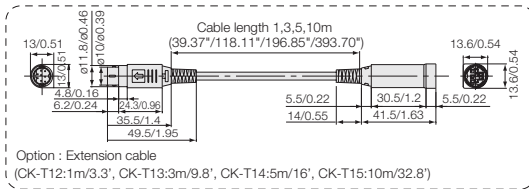
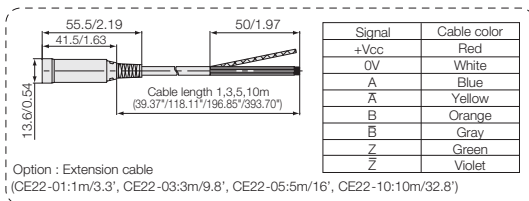
- Measuring range: 2 mm ● Accuracy: 1  $\mu\text{m}$ , 1.5  $\mu\text{m}$  ● Resolution: 0.1  $\mu\text{m}$ , 0.5  $\mu\text{m}$
- Max.response speed: 80m/min (Resolution: 0.1  $\mu\text{m}$ )  
250m/min (Resolution: 0.5  $\mu\text{m}$ )
- Built-in reference point ● Excellent resistance to workshop conditions.
- Robust design for harsh environments.



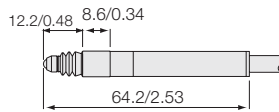
DK802AR/DK802AR5/  
DK802BR/DK802BR5

## Digital Gauge

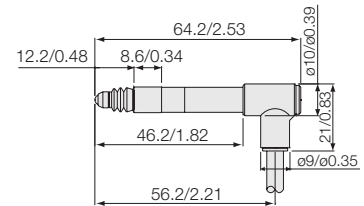
### Dimensions



DK802AR/DK802AR5/  
DK802BR/DK802BR5



DK802ALR/DK802ALR5/  
DK802BLR/DK802BLR5



Unit : mm/inch

### Specifications DK802 Series

Model	High-resolution Flange models		General-purpose resolution Flange models	
	DK802AR, DK802ALR	DK802BR, DK802BLR	DK802AR5, DK802ALR5	DK802BR5, DK802BLR5
Output	A/B/Z phase voltage-differential line driver output (compliant with EIA-422)			
Signal pitch	40 $\mu\text{m}$			
Resolution	0.1 $\mu\text{m}$		0.5 $\mu\text{m}$	
Measuring range	2 mm (0.08")			
*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	100 m/min
Air driving	Vacuum suction (DK802ALR / DK802ALR5 / DK802BLR / DK802BLR5)			
Vibration resistance (10 to 2000 Hz)	100m/s <sup>2</sup>			
Impact resistance (11 ms)	1000m/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	2.5 m/8.2'			
Diameter of stem	$\phi$ 8 / 0.31" dia.			
Mass*1	Approx. 20 g/0.7 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: The mass indicated is the total mass excluding the cable and interpolation box.