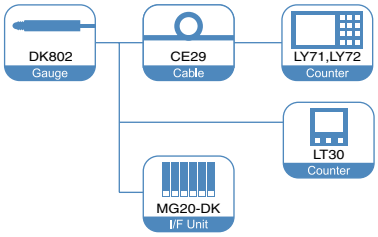
DK

DK802A/B Series

High resolution and High accuracy compact digital gauges.

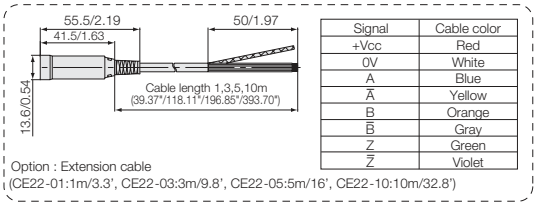
- Measuring range : 2 mm ● Accuracy : 1 μm, 1.5 μm ● Resolution : 0.1 μm, 0.5 μm
- Max.respose speed : 80m/min (Resolution : 0.1 μm)
  250m/min (Resolution : 0.5 μm)
- Built-in reference point ● Excellent resistance to workshop conditions.
- Robust design for harsh environments.



DK802AR/DK802AR5/
DK802BR/DK802BR5

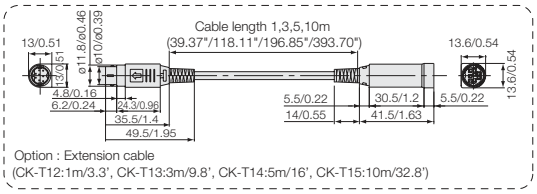
Digital Gauge

Dimensions



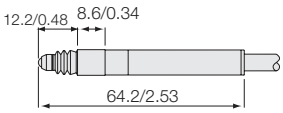
Signal	Cable color
+Vcc	Red
0V	White
A	Blue
$\overline{A}$	Yellow
B	Orange
$\overline{B}$	Gray
Z	Green
$\overline{Z}$	Violet

Option : Extension cable
(CE22-01:1m/3.3', CE22-03:3m/9.8', CE22-05:5m/16', CE22-10:10m/32.8')

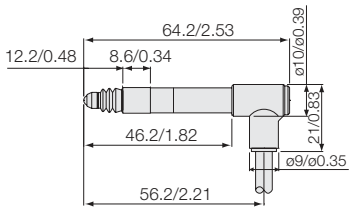


Option : Extension cable
(CK-T12:1m/3.3', CK-T13:3m/9.8', CK-T14:5m/16', CK-T15:10m/32.8')

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 μm			
Resolution	0.1 μm		0.5 μm	
Measuring range	2 mm (0.08")			
"Accuracy (at 20℃ / 68℉)"	1 μm		1.5 μm	
Measuring force (at 20℃ / 68℉)	Downward: 0.45 ± 0.25 N Horizontal: 0.40 ± 0.25 N Upward: 0.35 ± 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^2			
Impact resistance (11 ms)	1000m/s^2			
Protective structure	IP66 (not including interpolation box and connectors)			
Operating temperature	0℃ to 50℃/32℃ F to 122℉			
Storage temperature	–20℃ to 60℃/_4℃F to 140℉			
Power supply voltage	DC +5 V ±5%			
Power consumption	1 W			
Cable length	2.5 m/8.2'			
Diameter of stem	ϕ"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.