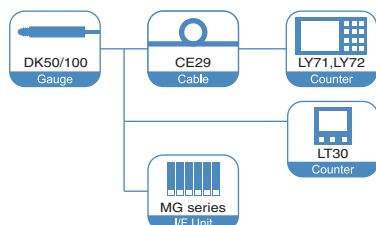


DK

## DK50/100 Series

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

- Measuring range : 50 mm / 1.97", 100 mm / 3.94",
- Accuracy : 2  $\mu\text{m}$  (DK50PR5/50NR5), 4  $\mu\text{m}$  (DK100PR5/100NR5)
- Resolution : 0.5  $\mu\text{m}$  ● Excellent resistance to workshop conditions.
- High measuring force (DK50PR5/100PR5) ● Low measuring force (DK50NR5/100NR5)
- Direct connected to A/B quadrature counter



DK50NR5/DK50PR5

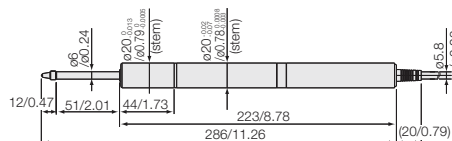


DK100NR5/DK100PR5

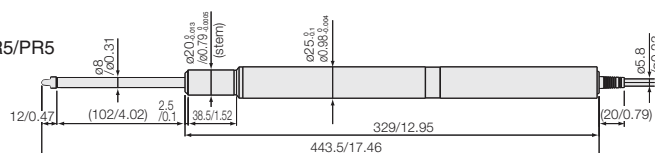
## Digital Gauge

## Dimensions

DK50NR5/PR5



DK100NR5/PR5



Unit : mm/inch

## Specifications

Model	DK50NR5	DK50PR5	DK100NR5	DK100PR5
Output	A/B/Z phase voltage-differential line driver output (compliant with EIA-422) *Please see P17 Output Signal Phase Difference.			
Resolution*1	0.5 $\mu\text{m}$			
Measuring range	50 mm		100 mm	
Accuracy (at 20°C)	2 $\mu\text{m}$		4 $\mu\text{m}$	
Measuring force (at 20°C)	Upward	—	—	—
	Horizontal	0.9 $\pm$ 0.4 N	1.8 $\pm$ 0.65 N	4.9 N or less
	Downward	1.3 $\pm$ 0.5 N	2.7 $\pm$ 0.55 N	4.9 N or less
Reference point	One location (at 1 mm position of spindle movement)			
Maximum response speed	250 m/min			
Vibration resistance (10 to 2000 Hz)	150 m/s <sup>2</sup>			
Impact resistance (11 ms)	1500 m/s <sup>2</sup>			
Protective structure	IP50	IP64	IP50	IP64
Operating temperature	0°C to 50°C			
Storage temperature	-20°C to 60°C			
Power supply voltage	DC +5 V $\pm$ 5%			
Power consumption	1 W or less			
Cable length*2	Approx. 2.5 m			
Diameter of stem	$\phi$ 20 <sup>0</sup> / <sub>-0.013</sub> mm			
Mass*3	Approx. 360 g		Approx. 630 g	
Feeler	Provided with a carbide ball tip DZ-122 (Mount screw M2.5)			Provided with a carbide ball tip DZ-121 (Mount screw M2.5)
Output cable length	22 m max.			
Guaranteed number of Strokes	Minimum 5 million cycles without shock			
Accessories	+P M4x5 screw (2 pcs.), Instruction Manual			

\*1 : The resolution setting needs to be made when connecting to the LT30 series, MG series, and LY70 series. For details, please refer to the respective instruction manual.

\*2 : Please refer to P10 DK 802 A/B about the extension cable (Option).

\*3 : The mass indicated is the total mass excluding the cable and interpolation box.