

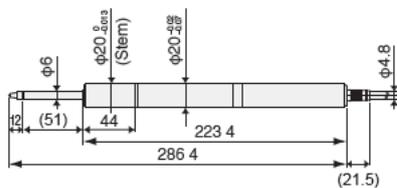
# DK DK50/100

Resolution **0.5μm** Stem **φ20** Stroke **50mm** Stroke **100mm** Output **A/B phase**

\* DK50NR5/PR5

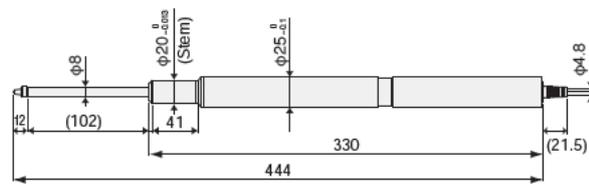


DK50NR5/PR5



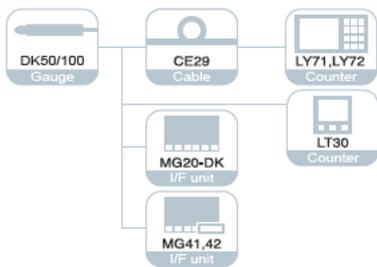
\* Upon installation, clamp the stem.

DK100NR5/PR5



\* Upon installation, clamp the stem.

Unit: mm



## Specifications

Model	Standard model	Protected type model	Standard model	Protected type model
	DK50NR5	DK50PR5	DK100NR5	DK100PR5
Measuring range	50 mm		100 mm	
Maximum resolution	0.5 μm			
Accuracy (at 20°C/68°F)	2 μm		4 μm	
Measuring force (at 20°C/68°F)	Upward – Horizontal 0.9±0.4 N Downward: 1.3±0.5 N	6.2 N or less	Upward – Horizontal 1.8±0.65 N Downward: 2.7±0.55 N	9.3 N or less
Maximum response speed	250 m/min			
Reference point	Position at spindle movement of 1 mm			
Reference-point response speed	Same as the noted maximum response speed			
Output	A/B/reference point Voltage-differential line driver output (conforming to E A-422)			
Spindle drive system	Spring push			
Protection grade <sup>*1</sup>	P50	P64	IP50	P64
Vibration resistance	10 to 2000 Hz 150 m/s <sup>2</sup>			
Impact resistance	1500 m/s <sup>2</sup> 11 ms			
Operating temperature	0 to 50 °C			
Storage temperature	-20 to 60 °C			
Power supply	5 VDC±5 %			
Power consumption	1 W			
Mass <sup>*2</sup>	Approx. 360 g		Approx. 630 g	
Output cable length	2.4 m			
Feeler	Carbide ball tip, Mounting screw M2.5			
Accessories	Instruction Manual, +P M4 × 5 screw (2pc)			

\*1 Excluding the interpolation box and connector

\*2 Excluding cable section and interpolation box