

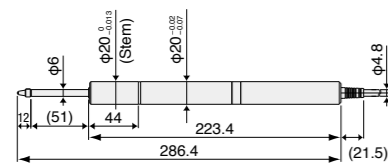
# DK DK50/100

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



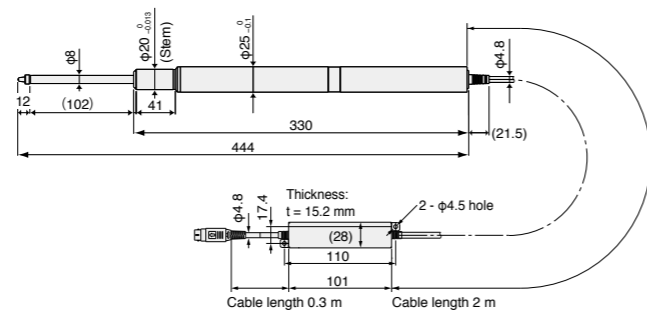
\* DK50NR5/PR5

DK50NR5/PR5



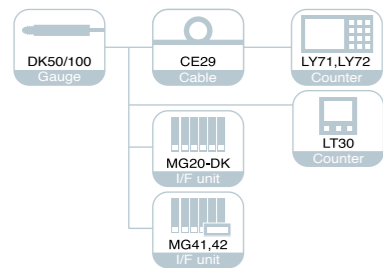
\* Upon installation, clamp the stem.

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 EIA-422)			
Spindle drive system	Spring push			
Protection grade <sup>1</sup>	IP50	IP64	IP50	IP64
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)			

<sup>1</sup> Excluding the interpolation box and connector  
<sup>2</sup> Excluding cable section and interpolation box

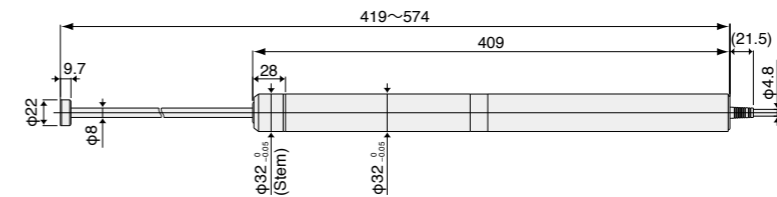
# DK DK155/205

Resolution **0.5 μm** Stem **φ32** Stroke **155mm** Stroke **205mm** Output **A/B phase**



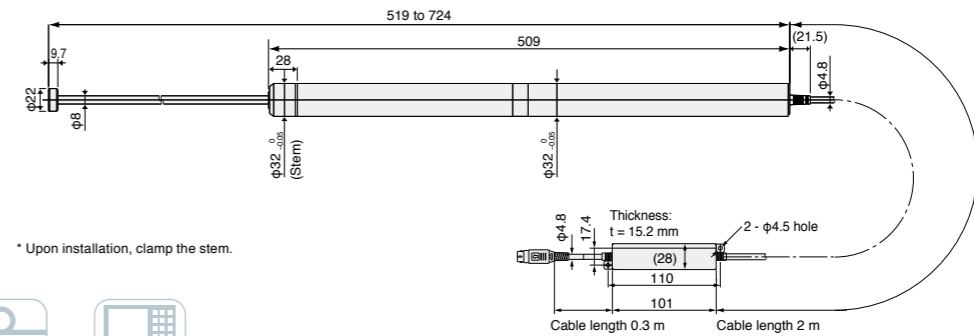
\* DK155PR5

DK155PR5



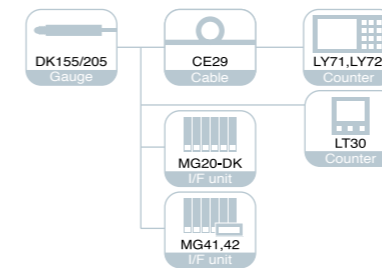
\* Upon installation, clamp the stem.

DK205PR5



\* Upon installation, clamp the stem.

Unit: mm



## Specifications

Model	DK155PR5	DK205PR5
Measuring range	155 mm	205 mm
Maximum resolution	0.5 μm	
Accuracy (at 20°C/68°F)	5 μm	6 μm
Maximum response speed	250 m/min	
Reference point	Position at spindle movement of 5 mm	
Reference-point response speed	Same as the noted maximum response speed	
Output	A/B/reference point Voltage-differential line driver output (conforming to EIA-422)	
Spindle drive system	None	
Protection grade <sup>1</sup>	IP64	
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. 1100 g	Approx. 1300 g
Output cable length	2.4 m	
Surface to be measured	Soft magnetic material	
Magnetically attachable feeler	Magnetic attraction: 10 N, resistance against horizontal slip: 2.7 N, Provided with a φ4 mm carbide ball tip	
Spindle <sup>3</sup>	φ8 mm, radial swing: 0.04 mm max.	
Accessories	Instruction Manual, +P M4 × 5 screw (2pc)	

<sup>1</sup> Excluding the interpolation box and connector  
<sup>2</sup> Excluding cable section and interpolation box  
<sup>3</sup> The spindle weighs about 400 g.