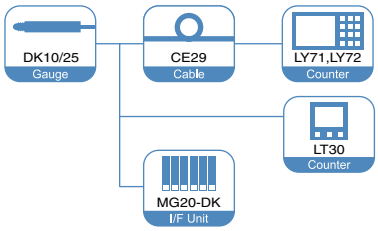
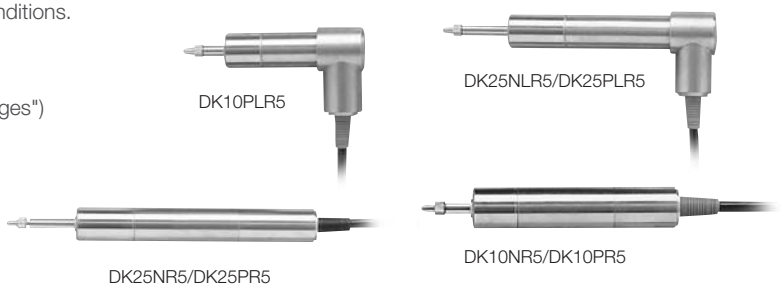
DK

DK10/25 Series

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

- Measuring range : 10 mm / 0.39" and 25 mm / 0.98" ● Accuracy : 2 μm
- Resolution : 0.5 μm ● Excellent resistance to workshop conditions.
- High measuring force (10PR5/10PLR5/25PR5/25PLR5)
- Low measuring force (10NR5/25NR5/25NLR)
- A variety of accessories available (See "Accessories for Gauges")
- Direct connected to A/B quadrature counter

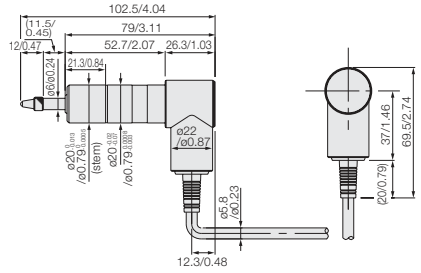




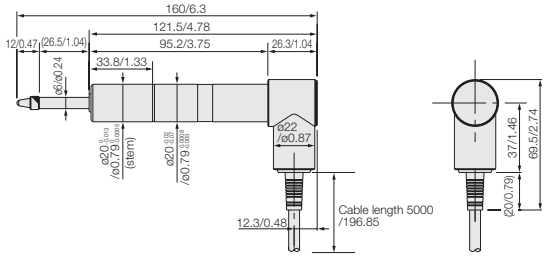
Digital Gauge

Dimensions

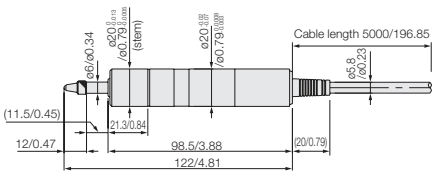
DK10PLR5



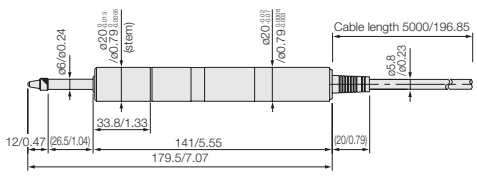
DK25NLR5/PLR5



DK10NR5/PR5



DK25NR5/PR5



Unit : mm/inch

Specifications

Model		DK10NR5	DK10PR5	DK10PLR5	DK25NR5	DK25PR5	DK25NLR5	DK25PLR5
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 μm						
Measuring range		10 mm			25 mm			
Accuracy (at 20℃)		2 μm						
Measuring force (at 20℃)	Upward	0.3 ± 0.25 N	4.9 N or less		0.4 ± 0.3 N	4.9 N or less	0.4 ± 0.3 N	4.9 N or less
	Horizontal	0.6 ± 0.3 N			0.7 ± 0.35 N		0.7 ± 0.35 N	
	Downward	0.8 ± 0.35 N			1 ± 0.4 N		1 ± 0.4 N	
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/s²						
Impact resistance (11 ms)		1500 m/s²						
Protective structure		IP50	IP64		IP50	IP64	IP50	IP64
Operating temperature		0℃ to 50℃						
Storage temperature		-20℃ to 60℃						
Power supply voltage		DC +5 V ±5%						
Power consumption		1 W or less						
Cable length*2		Approx. 2.5 m						
Diameter of stem		ø $20^{0}_{-0.013}$ mm						
Mass*3		Approx. 230 g			Approx. 300 g			
Feeler		Provided with a carbide ball tip DZ-122 (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.