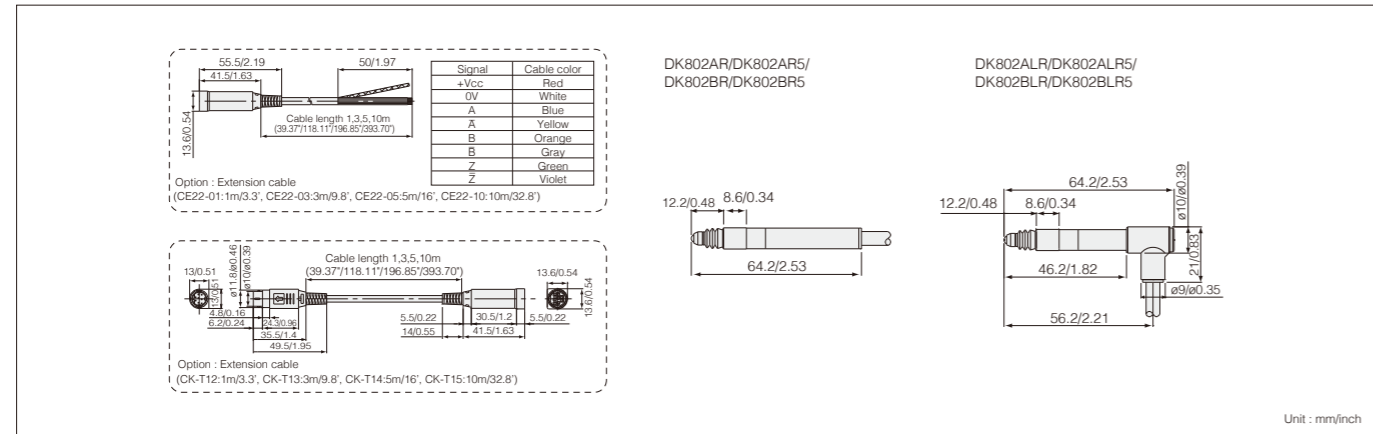


# DK802

Specifications	High resolution type		General purpose type	
	DK802AR, DK802ALR	DK802BR, DK802BLR	DK802AR5, DK802ALR5	DK802BR5, DK802BLR5
Output	A/B/REF differential TTL output (compliant with EIA-422)			
Resolution	0.1 μm		0.5 μm	
Measuring range	2 mm (0.08")		1.5 mm	
Accuracy (at 20°C / 68°F)	1 μm		1.5 μm	
Measuring force (at 20°C / 68°F)	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)	100 m/s <sup>2</sup>			
Impact resistance (11 ms)	1000 m/s <sup>2</sup>			
Protective structure	IP66 (not including interpolation box and connectors)			
Operating temperature	0°C to 50°C/32°F to 122°F			
Storage temperature	-20°C to 60°C/-4°F to 140°F			
Power supply voltage	DC +5 V ±5%			
Power consumption	1 W			
Cable length	2.5 m/8.2'			
Diameter of stem	ø8 / 0.31" dia.			
Mass <sup>*1</sup>	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.

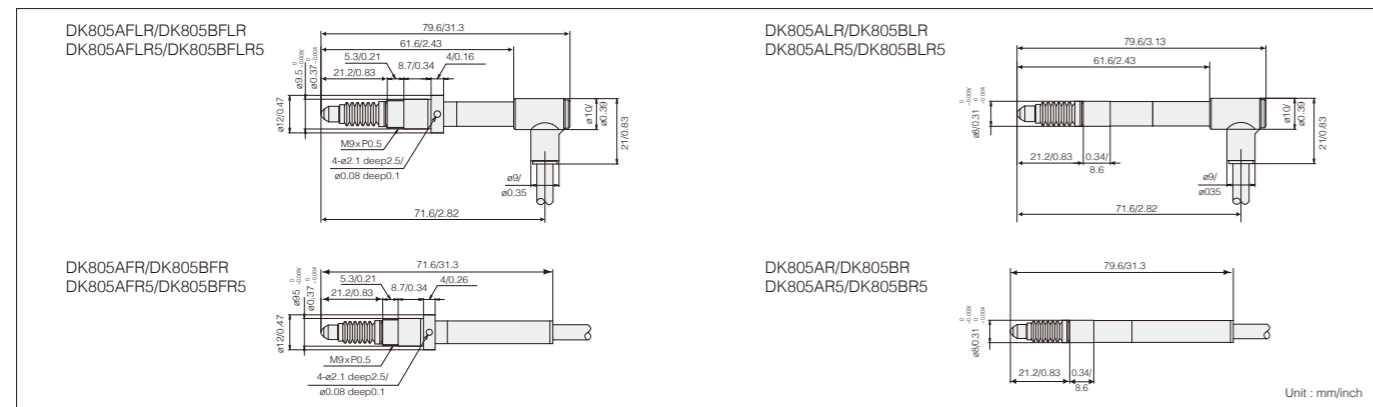


# DK805

Specifications	High-resolution models		General-purpose resolution model	
	DK805AFR, DK805AFLR, DK805AR, DK805ALR	DK805BFR, DK805BFLR, DK805BR, DK805BLR	DK805AFR5, DK805AFLR5, DK805AR5, DK805ALR5	DK805BFR5, DK805BFLR5, DK805BR5, DK805BLR5
Output	A/B/ phase voltage-differential line driver output (compliant with EIA-422) *Please see P17 Output Signal Phase Difference.			
Resolution	0.1 μm		0.5 μm	
Measuring range	5 mm (0.19")		1.5 mm	
Accuracy (at 20°C/68°F)	1 μm		1.5 μm	
Measuring force(at 20°C/68°F)	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 ( DK805AFLR / DK805AFLR5 / DK805BFLR / DK805BFLR5 / DK805ALR / DK805ALR5 / DK805BLR5 )			
Vibration resistance (10 to 2000 Hz)	100 m/s <sup>2</sup>			
Shock resistance (11 ms)	1000 m/s <sup>2</sup>			
Protective structure	IP66 (not including interpolation box and connectors)			
Operating temperature	0°C to 50°C/32°F to 122°F			
Storage temperature	-20°C to 60°C/-4°F to 140°F			
Power supply voltage	DC +5 V ±5%			
Power consumption	1 W			
Cable length <sup>*1</sup>	2.5 m/8.2'			
Diameter of stem	ø9.50 <sup>±0.009</sup> / 0.37 <sup>±0.004</sup> dia.			
Mass <sup>*2</sup>	Approx. 30 g/1.06 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	Installation spacer, Instruction Manual, Supplement			
Output cable length (up to the electronic section)	22 m/72.2' max.			

\*1 : Please refer to P10 DK 802 A/B about the extension cable (Option).

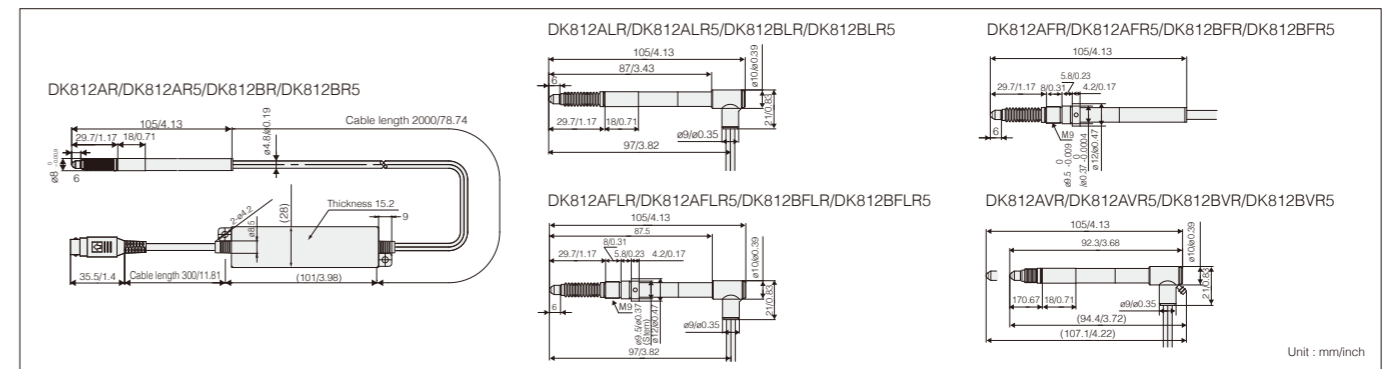
\*2 : The mass indicated is the total mass excluding the cable and interpolation box.



# DK812

Specifications	High-resolution models		General-purpose resolution models	
	DK812AR, DK812ALR, DK812AFR, DK812AFLR, DK812AVR	DK812BR, DK812BLR, DK812BFR, DK812BFLR, DK812BVR	DK812AR5, DK812ALR5, DK812AFR5, DK812AFLR5, DK812AVR5	DK812BR5, DK812BLR5, DK812BFR5, DK812BFLR5, DK812BVR5
Output	A/B/ phase voltage-differential line driver output (compliant with EIA-422)			
Resolution	0.1 μm		0.5 μm	
Measuring range	12 mm (0.47")		1.5 mm	
Accuracy (at 20°C / 68°F)	1 μm		1.5 μm	
Measuring force (at 20°C / 68°F)	Downward: 0.6 ± 0.3 N Horizontal: 0.5 ± 0.3 N Upward: 0.4 ± 0.3 N Air pressure of 0.03Mpa : 1N or less in all directions Air pressure of 0.04Mpa : 1.7N or less in all directions			
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 (DK812AFLR / DK812AFLR5 / DK812BFLR / DK812BFLR5) Pneumatic push type (DK812AVR / DK812AVR5 / DK812BVR / DK812BVR5)			
Vibration resistance (10 to 2000 Hz)	100 m/s <sup>2</sup>			
Impact resistance (11 ms)	1000 m/s <sup>2</sup>			
Protective structure	IP66 (not including interpolation box and connectors)			
Operating temperature	0°C to 50°C/32°F to 122°F			
Storage temperature	-20°C to 60°C/-4°F to 140°F			
Power supply voltage	DC +5 V ±5%			
Power consumption	1 W			
Cable length <sup>*2</sup>	2.5 m/8.2'			
Diameter of stem	ø9.5/0.37" dia. (Flange type), ø8/0.31" dia. (others)			
Mass <sup>*1</sup>	Approx. 30 g/1.06 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 : Please refer to P10 DK 802 A/B about the extension cable (Option). \*2 : The mass indicated is the total mass excluding the cable and interpolation box.



# [NEW] DK830

Specifications	DK830SR		DK830SLR		DK830SVR	
	Model	DK830SR		DK830SLR		DK830SVR
Measuring range	30 mm		30 mm		30 mm	
Resolution	1.3 μm		0.1 μm		1.7 μm	
Accuracy(at 20°C / 68°F)	Upward: 0.5 ±0.35 N Horizontal: 0.6 ±0.35 N Downward: 0.7 ±0.35 N				Air presser 0.07 Mpa 1.9 N or less for all diecton Air presser 0.09 Mpa 2.6 N or less for all diecton	
Measuring force						
Operating temperature			0 to 50°C			
Storage temperature			-20 to 60°C			
Maximum response speed			80 m/min			
Refence response speed			80 m/min			
Air driving	non				Pneumatic push type	
Reference point position			One point at 1mm spindle move			
Protective design grade (Note1)	IP53		IP53		IP53/IP67 (Note2)	
Vibration resistance			10 to 2kHz 100 m/s <sup>2</sup>			
Impact resistance			1000 m/s <sup>2</sup> 11 ms			
Cable lngth			Approx. 2.4 m			
Diameter of stem			ø8			
Feeler			Provided with a carbide tip, Mounting screw M2.5			
Power supply voltage			DC 5 V ±5 %			
Power consumption			1 W			
Mass (Note3)	Approx. 70 g				Approx. 80 g	
Output			A/B/REF voltage-differential line driver output (compliant with EIA-422)			
Garanteed number of strokes	20 million or more				10 million or more	
Output cable length (up to the electronic section)			22 m MAX			
Accessories			Spanner, Instruction manual, Supplimanet, +P M4x5 screw(2 pcs.)			

Note1: Except interpolation box and connector Note2: Bellows set(Option accessory) Note3: Except cable and interpolation box Note4: According to the evaluation method of Magnescale.

