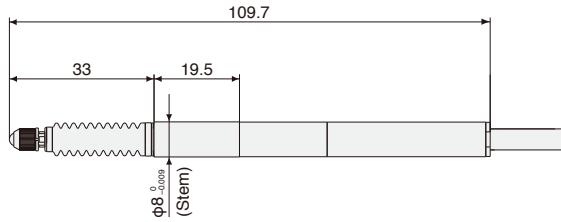


DK DK812S

Resolution 0.1µm Resolution 0.5µm Stem φ8 Stroke 12mm Output A/B phase

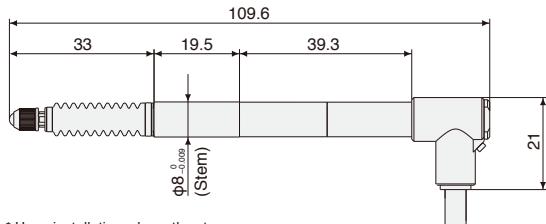
* DK812SAR/DK812SAR5/DK812SBR/DK812SBR5

DK812SAR/DK812SAR5
DK812SBR/DK812SBR5



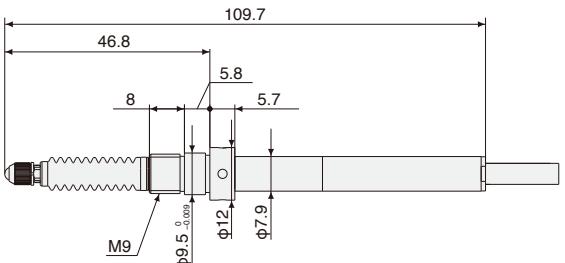
* Upon installation, clamp the stem.

DK812SALR/DK812SALR5
DK812SBLR/DK812SBLR5

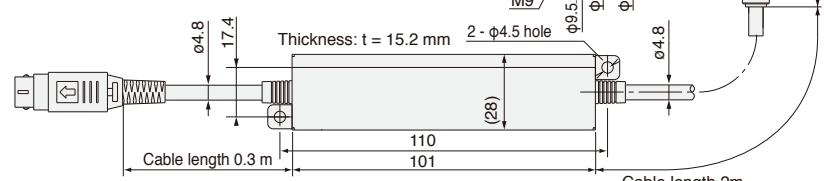


* Upon installation, clamp the stem.

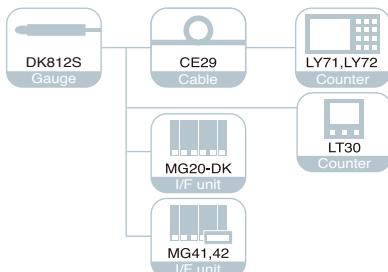
DK812SAFR/DK812SAFR5
DK812SBFR/DK812SBFR5



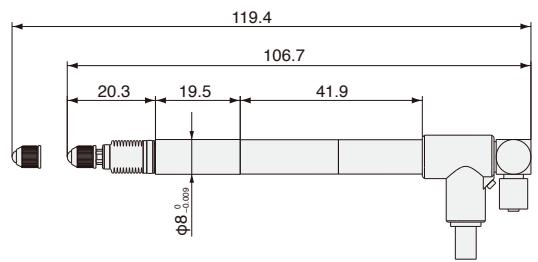
DK812SAFLR/DK812SAFLR5
DK812SBFLR/DK812SBFLR5



DK812SAVR/DK812SAVR5
DK812SBVR/DK812SBVR5
(Pneumatic push model)



* Upon installation, clamp the stem.



Unit: mm

Specifications

Model	High-resolution models		General-purpose resolution models	
	DK812SAR, DK812SALR DK812SAFR, DK812SAFLR DK812SAVR	DK812SBR, DK812SBLR DK812SBFR, DK812SBFLR DK812SBVR	DK812SAR5, DK812SALR5 DK812SAFR5, DK812SAFLR5 DK812SAVR5	DK812SBR5, DK812SBLR5 DK812SBFR5, DK812SBFLR5 DK812SBVR5
Measuring range	12 mm			
Maximum resolution	0.1 µm		0.5 µm	
Accuracy (at 20°C/68°F)	1 µm		1.5 µm	
Measuring force (at 20°C/68°F)	Upward: 0.4±0.3 N Horizontal: 0.5±0.3 N Downward: 0.6±0.3 N		0.6±0.5 N (Pneumatic push type) 0.7±0.5 N (Pneumatic push type) 0.8±0.5 N (Pneumatic push type)	
Maximum response speed	80 m/min	42 m/min	250 m/min	100 m/min
Reference point	Position at spindle movement of 1mm			
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	Pneumatic push (DK812SAVR/SBVR/SAVR5/SBVR5)	Vacuum suction (DK812SALR/SAFLR/SBLR/SBFLR/SALR5/SBLR5/SBFLR5)	
Number of strokes ¹	60 million			
Protection grade ²	Straight model: IP66, right-angle model: IP64 (IP67 ³)			
Vibration resistance	20 to 2000 Hz 100 m/s ²			
Impact resistance	1000 m/s ² 11 ms			
Operating temperature	0 to 50 °C			
Storage temperature	-20 to 60 °C			
Power supply	5 VDC±5 %			
Power consumption	1 W			
Mass ⁴	Approx. 30 g			
Output cable length	2.4 m			
Feeler	Carbide ball tip, Mounting screw M2.5		Steel ball tip, Mounting screw M2.5	
Accessories	Instruction Manual, +P M4 × 5 screw (2pc), tightening nut, clamp spanner, wave washer, mounting pin 1 each (DK8**S*F** only) Hose elbow 1 pc (DK8**S*L** only), one spanner			

¹ Under specific test conditions defined by Magnescale Co., Ltd. Pneumatic push Model: 30 million time ² Excluding the interpolation box and connector

³ When φ4 mm tube is connected for right-angle model ⁴ Excluding cable section and interpolation box