

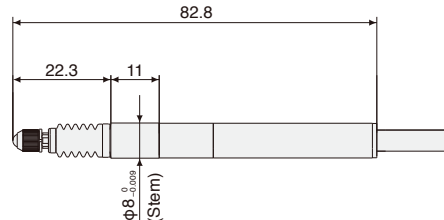
DK DK805S

Resolution **0.1 μm** Resolution **0.5 μm** Stem **φ8** Stroke **5mm** Output **A/B phase**

* DK805SAR/DK805SAR5/DK805SBR/DK805SBR5

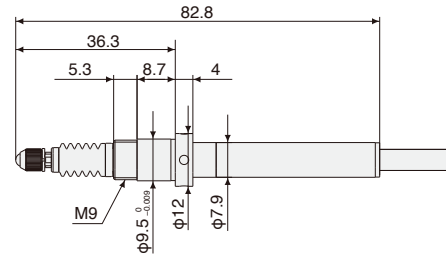


DK805SAR/DK805SAR5
DK805SBR/DK805SBR5

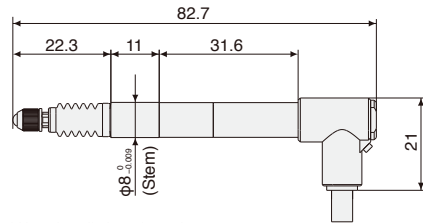


* Upon installation, clamp the stem.

DK805SAFR/DK805SAFR5
DK805SBFR/DK805SBFR5

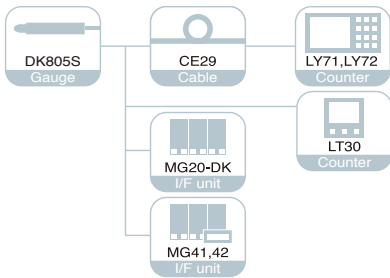
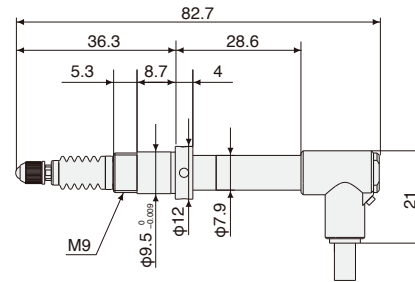


DK805SALR/DK805SALR5
DK805SBLR/DK805SBLR5



* Upon installation, clamp the stem.

DK805SAFLR/DK805SAFLR5
DK805SBFLR/DK805SBFLR5



Unit: mm

Specifications

Model	High-resolution models		General-purpose resolution models	
	DK805SAR, DK805SALR DK805SAFR, DK805SAFLR	DK805SBR, DK805SBLR DK805SBFR, DK805SBFLR	DK805SAR5, DK805SALR5 DK805SAFR5, DK805SAFLR5	DK805SBR5, DK805SBLR5 DK805SBFR5, DK805SBFLR5
Measuring range	5 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: 0.35±0.25 N Horizontal: 0.40±0.25 N Downward: 0.45±0.25 N			
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 Vacuum suction (DK805SALR/SAFLR/SBLR/SBFLR/SALR5/SAFLR5/SBLR5/SBFLR5)			
Number of cycles tested 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. 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