

Magnescale

SPEED X PRECISION

NEW

Digital Gauge DS800S Series



Easy connection to a PC or powered USB hub, and measurement software is available on our website.

High resistance to shock and vibration, with a low-friction spindle design.

Perfect for in-process or post-process inspection, even in harsh environments.

Magnescale Co., Ltd.

Specifications

Model name		DS805□□R / DS812S□□R	DS805S□□R5 / DS812S□□R5
Measuring range		DS805 : 5 mm	DS812 : 12 mm
Resolution		0.1 μm	0.5 μm
Accuracy (at 20°C)		1 μm	1.5 μm
Measuring force (at 20°C)	Upward	DS805 : 0.35 ± 0.25 N DS812 : 0.40 ± 0.3 N ^{*1} DS812SVR/DS812SVR5 : 0.60 ± 0.5 N ^{*2}	
	Horizontal	DS805 : 0.40 ± 0.25 N DS812 : 0.50 ± 0.3 N ^{*1} DS812SVR/DS812SVR5 : 0.70 ± 0.5 N ^{*2}	
	Downward	DS805 : 0.45 ± 0.25 N DS812 : 0.60 ± 0.3 N ^{*1} DS812SVR/DS812SVR5 : 0.80 ± 0.5 N ^{*2}	
Reference point		Position at spindle movement of 1 mm	
Protection grade (not including cable and interpolation box)		IP67	
Vibration resistance		100 m/s ² (20Hz to 2kHz)	
Impact resistance		1000 m/s ² (11 ms)	
Operating temperature		0 to 50°C (No condensation)	
Storage temperature		-20 to 60°C (90%RH or less)	
Power supply		5 VDC ± 5%	
Power consumption		200 mA Max.	
Mass (Probe)		Approximately 30g	
Cable length		Gauge⇄Interpolator : 2 m Interpolator⇄USB : 0.3 m	
Feeler		Carbide ball tip, mounting screw M2.5	Steel ball tip, mounting screw M2.5
Accessory		Instruction manual, tightening nut, clamp spanner, wave washer, hose elbow, spanner	
Communication Interface		USB2.0FS	
Recommended system specifications		CPU : Intel Core i3 or higher RAM : 1 GB or more OS : Windows7, Windows10 (32 bit/64 bit)	

*1 Except SVR/SVR5

*2 When air pressure is 0.055 Mpa

Model : DS805□□R □
name DS812S□□R □

【Resolution / Accuracy】
No symbol : Resolution 0.1 μm
Accuracy 1 μm
5 : Resolution 0.5 μm
Accuracy 1.5 μm

【Structure】
No symbol : Straight
L : Right angle
F : Flange
FL : Flange right angle
V : Pneumatic push (812 model only)

【Ball spline model】

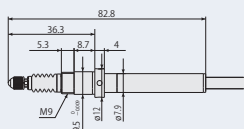
【Measuring range】
05 : 5mm
12 : 12mm

Dimensions

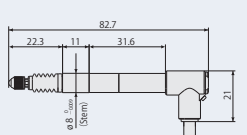
DS805SR



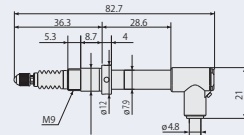
DS805SFR



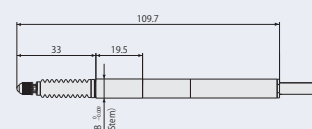
DS805SLR



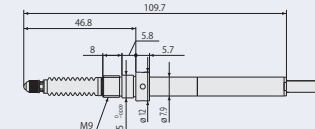
DS805SFLR



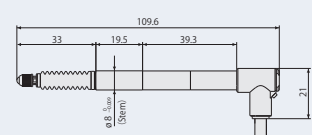
DS812SR



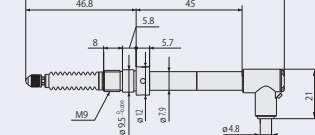
DS812SFR



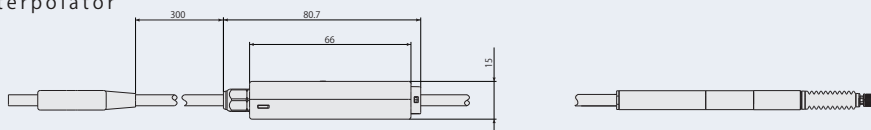
DS812SLR/SVR



DS812SFLR



Interpolator



Safety Precautions : To use this product safely, please read the instruction manual carefully prior to usage.

●Magnescale reserves the right to change product specifications without prior notice.

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