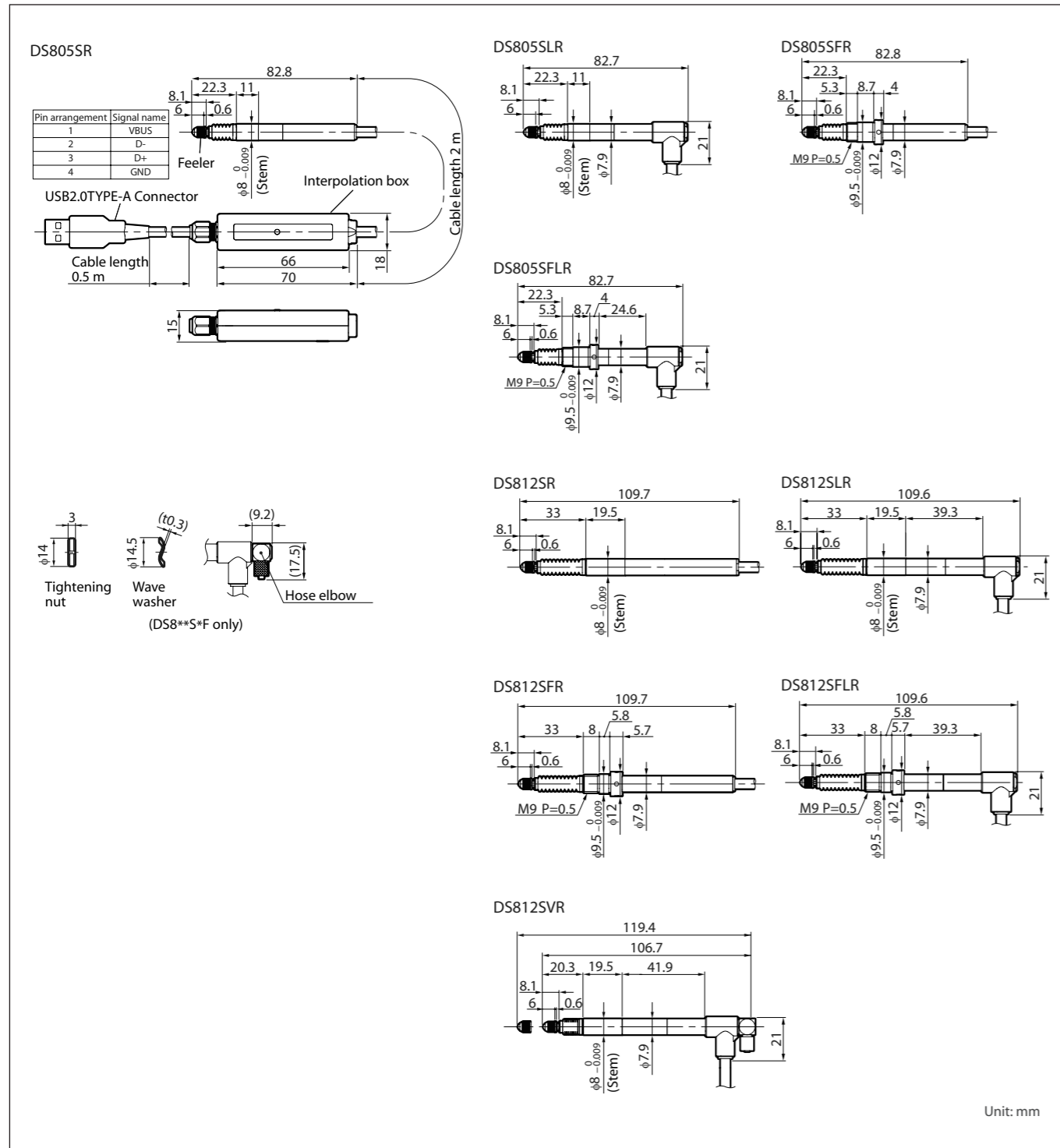


Dimensional Diagrams

* When cable extension is needed, please use CE38 which is optionally available. (Cable length Max. 4 m)



Magnescale

Digital Gauge

DS805SR / SLR / SFR / SFLR DS812SR / SLR / SFR / SFLR / SVR

Instruction Manual

Read all the instructions in the manual carefully before use and strictly follow them.
Keep the manual for future references.

Trademarks

Microsoft Windows is the registered trademark of Microsoft Corporation.

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Specifications

Model name	DS805SR DS805SLR DS805SFR DS805SFLR	DS812SR DS812SLR DS812SFR DS812SFLR	DS812SVR	
Measuring range	5 mm		12 mm	
Resolution	0.1 μ m			
Accuracy (at 20°C)	1 μ m p-p			
Measuring force (at 20°C)	Upward	0.35±0.25 N	0.4±0.3 N	0.6±0.5 N *1
	Horizontal	0.40±0.25 N	0.5±0.3 N	0.7±0.5 N *1
	Downward	0.45±0.25 N	0.6±0.3 N	0.8±0.5 N *1
Maximum response speed	80 m/min			
Reference point	Position at spindle movement of 1 mm ±0.5 mm			
Reference point response speed	40 m/min or less			
Communication interface	USB2.0FS			
Spindle drive systems	Spring push Air driving (Vacuum suction SL/SFL only) *3		Air driving (Air pressure ejection)	
Protection grade *2	IP67 (S), IP64 (SL/SFL), IP67 (SL/SFL)*3		IP67	
Vibration resistance	100 m/s ² (20 to 2000 Hz)			
Impact resistance	1000 m/s ² (11 ms)			
Operating temperature	0 to 50°C			
Storage temperature	-20 to 60°C (90% RH or less)			
Power supply	DC5 V±5%			
Power consumption	120 mA Max.			
Mass *4	Approx. 30 g			
Maximum connectable measuring unit	32			
Cable length	Measuring unit↔Interpolation box : 2 m Interpolation box↔USB : 0.5 m			
Feeler	Carbide ball tip, Mounting screw M2.5			
Accessories	Spanner, Instruction Manual, Supplement Manual, +P M4×5 screw(2), SL/SFL only : Hose elbow SF/SFL only : Tightening nut, Wave washer, Pin, Clamp spanner DS812SF/SFL only: 2 mm collar for adjustment		Spanner, Instruction Manual, Supplement Manual, +P M4×5 screw (2)	
System requirement	CPU : Intel Core i3 or higher recommended RAM : 1 GB or higher recommended OS : Windows7, Windows10 (32bit/64bit of each edition)			

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DS805SR / SLR / SFR / SFLR
DS812SR / SLR / SFR / SFLR / SVR
2-A02-471-1C

2020.5
Printed in Japan
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*1 Air pressure : 0.055MPa

*2 Not including interpolation box and connector

*3 When using the supplied hose elbow and a $\phi 4$ mm tube

*4 Not including cable and interpolation box

