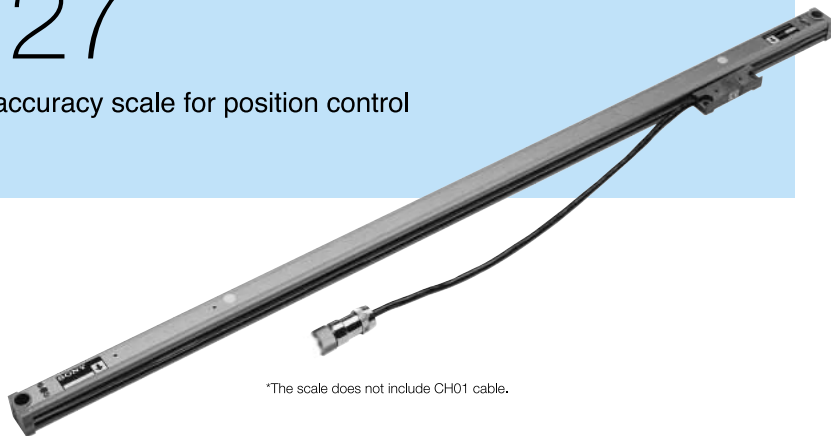


SR

SR127

Compact, high accuracy scale for position control

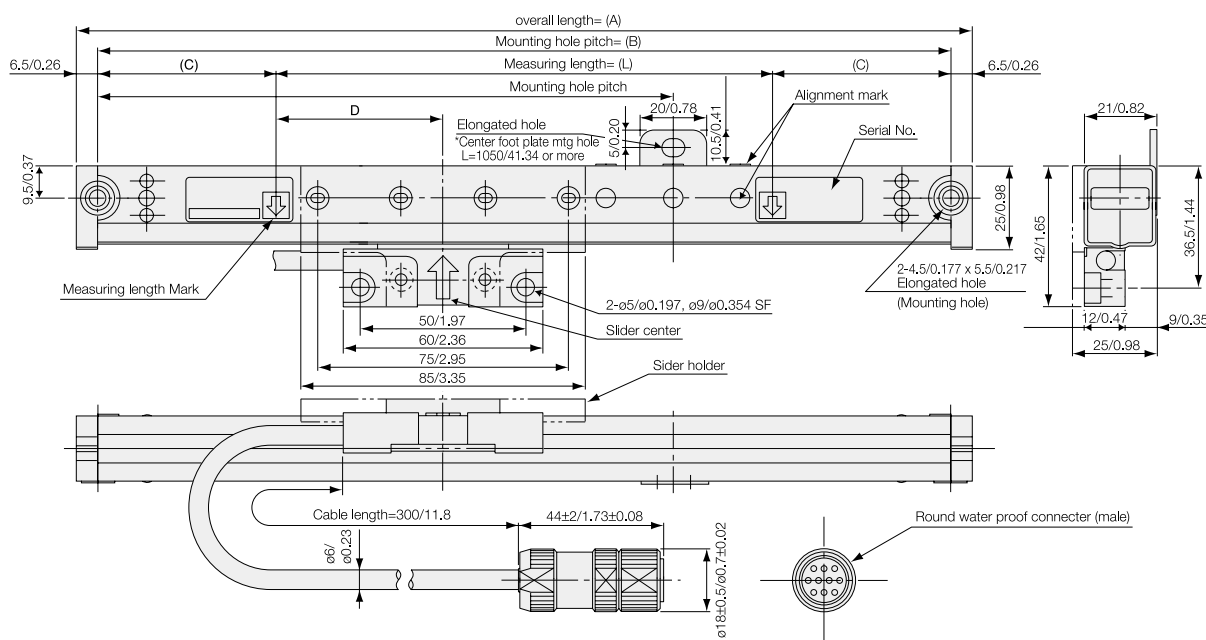


*The scale does not include CH01 cable.

- Magnetic principle
- Excellent resistance to workshop conditions (IP54), Resistant to oil, dirt, vibration, and shock.
- Compact design
- High accuracy: $\pm 3 \mu\text{m}$
- Resolution: $0.5 \mu\text{m}$
- Measuring length: 50 to 1250 mm / 1.9" to 49.2"
- Same expansion coefficient as machine tools : $(11 \pm 1) \times 10^{-6} / ^\circ\text{C}$

MAGNESCALE®

Dimensions



Measuring length (L)	Overall length (A)	Mounting hole pitch (B)	(C)	(D) (Slider set position at shipment)
50 to 200	L + 104/4.09	L + 91/3.58	45.5/ 1.79	L x 1/ 2
250	L + 120/4.72	L + 107/4.21	53.5/ 2.11	50/ 1.97
300 to 1250				

Unit : mm/inch

Specifications

Model	SR127-005 to SR127-020	SR127-025 to SR127-125
Measuring length L mm (inch)	50/100/150/200 (1.9/3.9/5.9/7.8)	250/300/350/400/450/500/550/600/650/750/850/950/1050/1250 (9.8/11.8/13.7/15.7/17.7/19.6/21.6/23.6/25.5/29.5/33.4/37.4/41.3/49.2)
Overall length	L + 104 mm/ 4.1"	L + 120 mm/ 4.7"
Max. travel	L + 14 mm/ 0.55"	L + 30 mm/ 1.18"
Accuracy (at 20°C / 68°F)	$\pm 3 \mu\text{m}$	
Resolution	$0.5 \mu\text{m}$	
Max. response speed	60 m/ min	
Mounting parallelism	Within 0.1 mm/ 0.004"	
Expansion coefficient	$(11 \pm 1) \times 10^{-6} / ^\circ\text{C}$	
Protective design grade	Equivalent to IP54	
Operating temperature	0°C to 40°C / 32°F to 104°F	
Storage temperature	-10°C to 50°C / 14°F to 122°F	
Cable length	300 mm/ 11.8"	