

# GB-A SR128

## Compact scale for digital readout and position control

- Magnetic principle
- Excellent resistance to workshop conditions (IP54). Resistant to oil, dirt, vibrations and shocks.
- Compact design
- Accuracy:  $\pm 5 \mu\text{m}$
- Resolution:  $0.5 \mu\text{m}$
- Measuring length: 50 mm to 2200 mm / 1.9" to 86.6"
- Same expansion coefficient as machine tools:  $(11 \pm 1) \times 10^{-6} / ^\circ\text{C}$

### Specifications

Model	GB-5A to GB-220A/ SR128-005 to SR128-220			
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 (9.8/11.8/13.7/15.7/17.7/19.6/21.6/23.6/25.5/29.5/33.4)	950/1050/1250/1400/1600/1850 (37.4/41.3/49.2/55.1/62.9/72.8)	2050/2200 (80.7/86.6)
Overall length	L + 104 mm/ 4.1"			
Max. travel	L + 14 mm/ 0.55"			
Accuracy (at 20°C / 68°F)	$\pm 5 \mu\text{m}$			
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			
Head cable length	300 mm/ 11.8"			
Cable length (display connection)*	3 m/ 9.8'	5 m/ 16.4'	10 m/ 32.8'	

\*Connection cable CH01 to displays is standard for the GB-A.

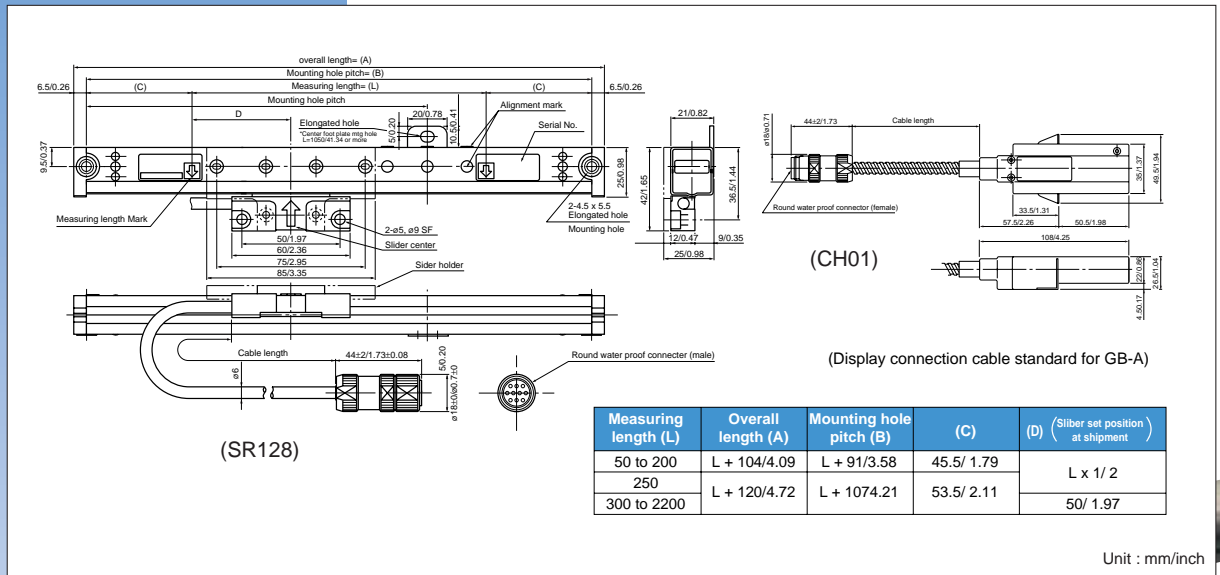
Model name: GB--A

Measuring length in cm  
(e.g. GB-20A: measuring length 200mm)

Note: Contact us about the following applications.

- Water-soluble coolant is used.
- Only a given section of a GB-Series scale is made to slide at high speed for a long period.

### Dimensions



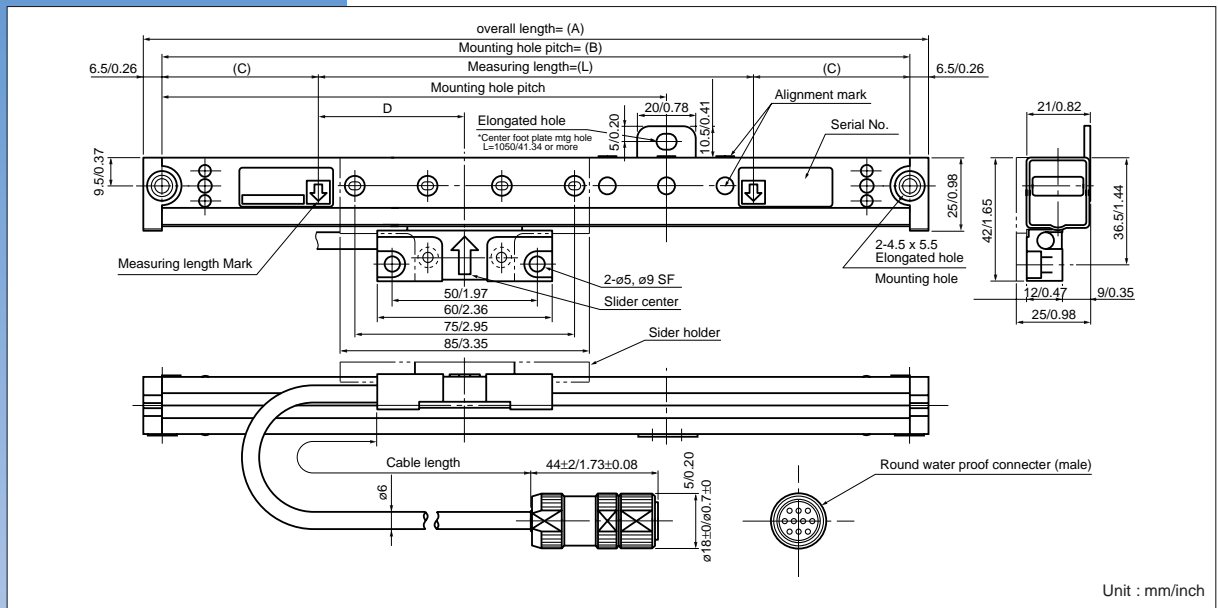
## Compact, high accuracy scale for position control

- Magnetic principle
- Excellent resistance to workshop conditions (IP54). Resistant to oil, dirt, vibrations and shocks.
- 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 ( $(11 \pm 1) \times 10^{-6} / ^\circ\text{C}$ )

### 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)	250/300/350/400/450/500/550/650/750/850/950/1050/1250 (9.8/11.8/13.7/15.7/17.7/19.6/21.6/25.5/29.5/33.4/37.4/41.3/49.2)
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	60m/min	
Mounting parallelism	Within 0.1mm/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	300mm/11.8"	

### Dimensions



\*The scale does not include head cable.