

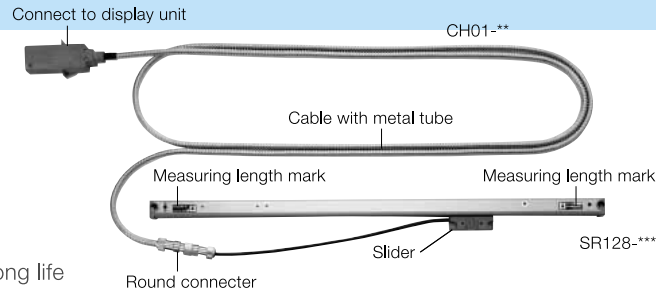
# GB-A

# GB-A SERIES (SR128)

A high-accuracy scale that offers higher functionality and reliability with a compact, slim shape and excellent resistance to workshop conditions.

- Magnetic principle
- Compact design for a space-saving installation.
- Excellent resistance to workshop conditions  
Resistant to oil, dirt, vibration, and shock.
- A short overall length for more effective use Length: 50mm to 2200mm
- Accuracy:  $(5+5L/1000) \mu\text{m}$  ● Resolution:  $0.5 \mu\text{m}$
- Expansion coefficient:  $(11\pm 1) \times 10^{-6}/^{\circ}\text{C}$  ● Simple structure conducive to long life
- The combination of SR128 and CH01

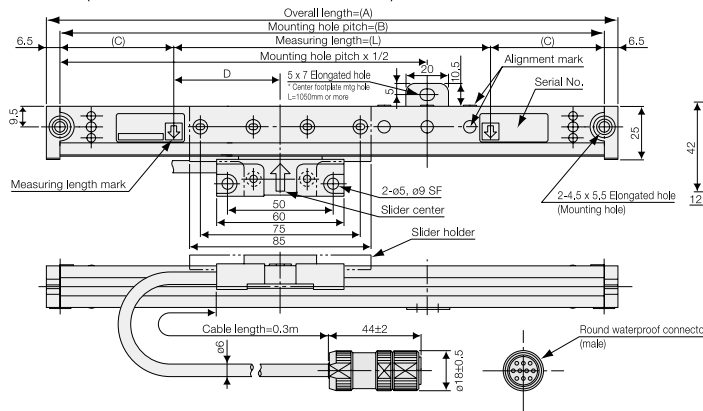
Note) SR128 also available on its own.



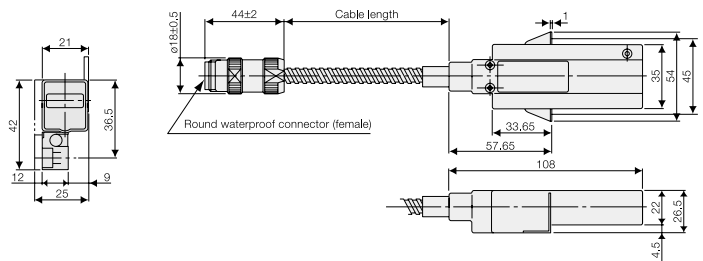
**MAGNESCALE®**

## Dimensions

SR128 (Model name of the scale itself)



CH01 (Name of accessory cable model)



Measuring length (L)	Overall length (A)	Mounting hole pitch (B)	(C)	(D) (Slider set position at shipment)
50 to 200	L+104	L+91	45.5	L x 1/2
250				
300 to 2200	L+120	L+107	53.5	50

## Product lineup and scale length

\* Please check the moving distance of the equipment. If the distance exceeds the scale measuring length, it may cause damage to the scale.

Model	Measuring length	Max. travel	Overall length	Cable length
GB-5A/SR128-005	50mm	(64mm)	(154mm)	3m
GB-10A/SR128-010	100mm	(114mm)	(204mm)	
GB-15A/SR128-015	150mm	(164mm)	(254mm)	
GB-20A/SR128-020	200mm	(214mm)	(304mm)	
GB-25A/SR128-025	250mm	(280mm)	(370mm)	
GB-30A/SR128-030	300mm	(330mm)	(420mm)	
GB-35A/SR128-035	350mm	(380mm)	(470mm)	
GB-40A/SR128-040	400mm	(430mm)	(520mm)	
GB-45A/SR128-045	450mm	(480mm)	(570mm)	
GB-50A/SR128-050	500mm	(530mm)	(620mm)	
GB-55A/SR128-055	550mm	(580mm)	(670mm)	
GB-60A/SR128-060	600mm	(630mm)	(720mm)	

Model	Measuring length	Max. travel	Overall length	Cable length
GB-65A/SR128-065	650mm	(680mm)	(770mm)	3m
GB-75A/SR128-075	750mm	(780mm)	(870mm)	
GB-85A/SR128-085	850mm	(880mm)	(970mm)	
GB-95A/SR128-095	950mm	(980mm)	(1070mm)	
GB-105A/SR128-105	1050mm	(1080mm)	(1170mm)	5m
GB-125A/SR128-125	1250mm	(1280mm)	(1370mm)	
GB-140A/SR128-140	1400mm	(1430mm)	(1520mm)	
GB-160A/SR128-160	1600mm	(1630mm)	(1720mm)	
GB-185A/SR128-185	1850mm	(1880mm)	(1970mm)	10m
GB-205A/SR128-205	2050mm	(2080mm)	(2170mm)	
GB-220A/SR128-220	2200mm	(2230mm)	(2320mm)	

Unit: mm

## Specifications

Model	GB-A			
Measuring length L mm	50/100/150/200	250/300/350/400/450/500/550/600/650/750/850	950/1050/1250/1400/1600/1850	2050/2200
Overall length	L+104mm		L+120mm	
Max. travel	L+approx.14mm(7mm each for left and right)		L+approx. 30mm (15mm each for left and right)	
Accuracy (at 20°C)	(5+5L/1000)μm			
Resolution	0.5μm			
Max. response speed	60m/min			
Mounting parallelism	0.1mm			
Expansion coefficient	$(11\pm 1) \times 10^{-6}/^{\circ}\text{C}$			
Protective design grade	Equivalent to IP54			
Operating temperature	0°C to 40°C			
Storage temperature	-10°C to 50°C			
Cable length	Standard: 3m (CH01-03C)		Standard: 5m (CH01-05C)	Standard: 10m (CH01-10C)
Accessory	Hexagon socket head cap screw (M4 x 10) x 3, hexagon socket head cap screw (M4 x 12) x 2, tiny screw (M4 x 5), bind screw (M4 x 10) x 2, flat washer (large series) (Polish Plain Washer/nominal diameter 4) x 3, flat washer (small series) (Small Plain Washer/nominal diameter 4) x 2, wire stop x 4, wire stop (small) x 1, external label x 1, Hexagon socket head cap screw (M5 x 25) x 2, hexagon nut (M5) x 2, spacer (t=0.1) x 5, clamp x 1			