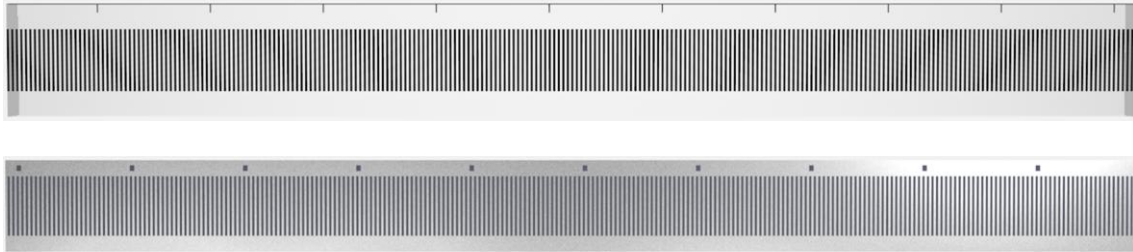


Datasheet

SA100 Series Absolute Scale

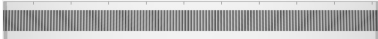



Highlights

Scale

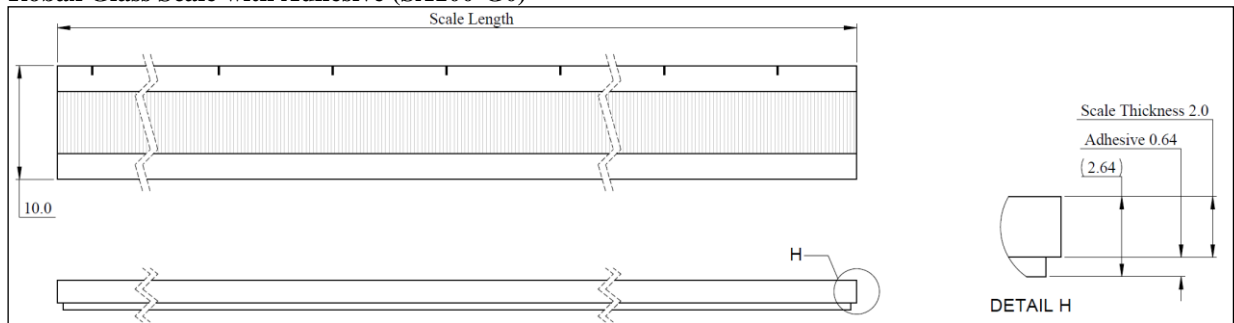
- Low thermal expansion coefficient
- Durable to corrosive substance

1. Specifications

Scale			
Image			
Series	With Adhesive	SA100-G0	SA100-SS
Scanning Principle		Optical (Reflective)	
Grating Type		Linear Absolute	
Grating Period		100 μm	
Substrate Material		Robax Glass	Stainless Steel
Thermal Expansion Coefficient		0 ppm/ $^{\circ}\text{C}$	11 ppm/ $^{\circ}\text{C}$
Accuracy		$\pm 5 \mu\text{m/m}$	$\pm 15 \mu\text{m/m}$
Temperature	Storage	-20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$ @ RH < 95% (Non-condensing)	
	Operating	0 $^{\circ}\text{C}$ to +50 $^{\circ}\text{C}$ @ RH < 95% (Non-condensing)	
Form	Width	10.0 mm	8.0 mm
	Thickness (Scale)	2.0 mm	0.25 mm
	Thickness (Adhesive)	0.64 mm	0.2 mm
Mass	With Adhesive	59.0 g/m	20.0 g/m
Length		Up to 1520 mm	Up to 6000 mm

2. Scale Dimension Drawing

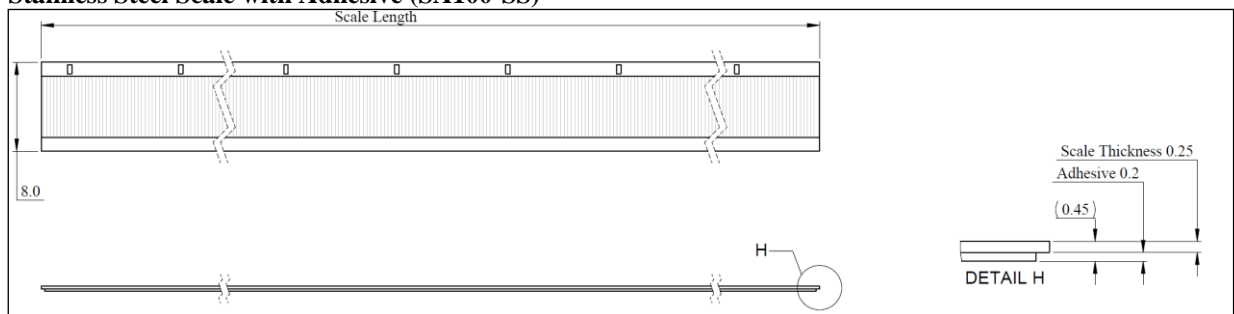
2.1 Robax Glass Scale with Adhesive (SA100-G0)



Note:

1. All dimensions are in mm.

2.2 Stainless Steel Scale with Adhesive (SA100-SS)



Note:

1. All dimensions are in mm.

3. Model Name

3.1 Robax Glass Scale with Adhesive (SA100-G0)

SA100-G0-1520		
		Scale Length: XXXX: Length in mm
		Substrate Material: G0: Robax glass with adhesive
		Series: SA100: Linear absolute scale for 100 μ m grating period

Note:

1. Minimum length is 70 mm, with increments of 50 mm. Maximum length is 1520 mm.
2. For customization of the scale length, please contact our sales team for more information.

3.2 Stainless Steel Scale with Adhesive (SA100-SS)

SA100-SS-6000		
		Scale Length: XXXX: Length in mm
		Substrate Material: SS: Stainless steel with adhesive
		Series: SA100: Linear absolute scale for 100 μ m grating period


Note:

1. Minimum length is 70 mm, with increments of 50 mm. Maximum length is 6000 mm.
2. For customization of the scale length, please contact our sales team for more information.

4. Compatible Readhead

Scale Type	Readhead Model	Description
SA100-G0	ABA100	Absolute 100 µm signal period with optical (reflective) scanning principle
SA100-SS		

5. Accessories List

Part Number	Image	Compatible Scale	Description
908080-01		SA100-SS	Scale applicator tool is used to accurately and efficiently assemble scale to the readhead's measuring surface, ensuring they are properly aligned and securely attached, which is crucial for the encoder system to deliver precise and reliable motion measurements.