

Linear Scale

# SD608-RA

## Compact scale with magnetic principle for feed back applications

- Slim, compact construction.
- Resolution: 0.5  $\mu\text{m}$  and 1  $\mu\text{m}$
- Switch-selectable A/B phase output and UP/DOWN signal, and synchronized zero point signal.
- Same expansion coefficient as machine tools:  $(11 \pm 1) \times 10^{-6}/^{\circ}\text{C}$
- Highly resistant to workshop conditions.
- High response speed: 60 m/min
- Protective design grade: equivalent to IP54

### Specifications

Model	SD608-RA
Measuring length mm (inch)	70,120,170,220,270,320,370,420,470,520,570,620,720,820,920,1020,1220,1370,1570,1820,2020,2170 (2.8,4.7,6.7,8.7,10.6,12.5,14.5,16.5,18.5,20.4,22.4,24.4,28.3,32.2,36.2,40.1,48.0,53.9,61.8,71.6,79.5,85.4)
Accuracy (at 20 °C / 68 °F)	$\pm 5 \mu\text{m}$
Resolution	0.5 $\mu\text{m}$ , 1 $\mu\text{m}$
Scale response speed	60 m/ min
Zero point response speed	18 m/ min Max
Expansion coefficient	$(11 \pm 1) \times 10^{-6}/^{\circ}\text{C}$
Output	Switch-selectable A/B phase output and UP/DOWN signal, and synchronized zero point signal; zero point: 1 point within measuring length (standard:1 point at the center)
Protective design grade	Equivalent to IP54 (scale unit) Equivalent to IP30 (detector unit)
Operating temperature	0 °C to 45 °C / 32 °F to 113 °F
Power supply	5VDC $\pm 5\%$
Power consumption	200 mA (no load) ,300 mA (with load)

### Dimensions

