

Compact scale with magnetic principle for feedback applications

- Slim, compact construction.
- Resolution: 0.5 μm and 1 μm
- Switch-selectable A/B quadrature 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 L 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)	± 5 μm
Resolution	0.5 μm, 1 μm
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 ± 5%
Power consumption	200 mA (no load), 300 mA (with load)

Dimensions

