

Digital Gauge DE-BR

High precision digital gauge for submicron position detection and measuring

- Magnetic principle
- High accuracy: $\pm 0.5 \mu\text{m}$
- High resolution: $0.1 \mu\text{m}$
- Measuring range: 12 mm / 0.47" and 30 mm / 1.18"
- Built-in zero point
- Protective design grade: equivalent to IP64 with optional bellows.

Specifications

Model		DE12BR	DE30BR
Measuring range		12 mm/ 0.47"	30 mm/ 1.18"
Resolution		0.1 μm	
Accuracy (at 20 °C /68 °F)		± 0.5 μm	
Max. response speed		20 m/min zero point detection mode : 0.15/min	
Measuring force	Upward	0.35 ± 0.2 N	0.5 ± 0.3 N
	Lateral	0.5 ± 0.2 N	0.75 ± 0.3 N
	Downward	0.7 ± 0.2 N	1.0 ± 0.3 N
Zero point		5 mm/0.197" from feeler end fully retracted	
Protective design grade		Equivalent to IP64 (with optional bellows)	
Mounting stem diameter		ø 8 ⁰ _{0.015} mm	
Operating temperature		0 °C to 50 °C / 32 °F to 122 °F	
Storage temperature		-10 °C to 60 °C / 14 °F to 140 °F	
Cable length		2.4 m/ 7.87'	
Feeler		Feeler tipped with 3 mm dia. carbide ball with M2.5 x 0.45 screw on fitting end (DZ123)	
Mass (excl. cable unit)		400 g / 14.1 oz	450 g / 15.9 oz

Dimensions

