

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)	$\pm 0.5 \mu\text{m}$		
Max. response speed	20 m/min zero point detection mode : 0.15/min		
Measuring force	Upward	0.35 \pm 0.2 N	0.5 \pm 0.3 N
	Lateral	0.5 \pm 0.2 N	0.75 \pm 0.3 N
	Downward	0.7 \pm 0.2 N	1.0 \pm 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	$\varnothing 8^{+0.015}$ 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

