

## INDUCTANCE TYPE PROBES

IP65  
WATERPROOF

9420-AP02

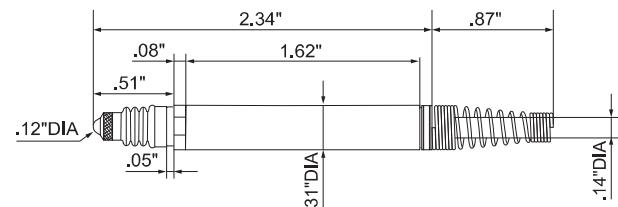


9420-BP02

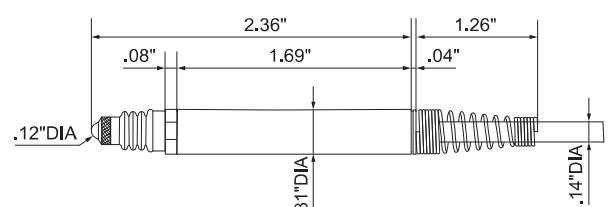
- Ultra-short length, built-in precision linear ball bearings
- For highly accurate and repeatable displacement measurements of displacement, deformation, dimension, vibration, thickness, expansion, etc. in quality control and metrology applications

## SPECIFICATION

Part No.	9420-AP02	9420-BP02
Range	$\pm 0.9\text{mm}$	$\pm 1\text{mm}$
Accuracy *	$\pm (0.3+3\times  L ^{3})\mu\text{m}$ , L is measuring length in mm	$\pm (0.2+3\times  L ^{3})\mu\text{m}$ , L is measuring length in mm
Repeatability	$0.15\mu\text{m}$	
Thermal drift	$0.25\mu\text{m}/^\circ\text{C}$	$0.15\mu\text{m}/^\circ\text{C}$
Mechanical stroke	2.2mm	3mm
Sensor type	LVDT (full bridge)	LVDT (half bridge)
Measuring force**	.17lbf	.14lbf
Protective cover	fluorinated elastomer	
Contact type	carbide	
Insert thread	M2.5	
Operating environment	14~140°F, $\leq 80\%$ (non-condensing)	
work		
storage	-4~212°F, $\leq 80\%$ (non-condensing)	
Cable length	6.5ft (customised from 6.5~16.4ft)	
Output interface	5-wire aviation interface	
Weight	.04lb	



9420-AP02



9420-BP02

\* Work with optional 9427-S series or 9428-B series displays, accuracy  $\leq 1\mu\text{m}$  (need to be set in the factory)

\*\* Measuring rod vertical down at  $0\pm 25\%$  potential