

APPLICATIONS

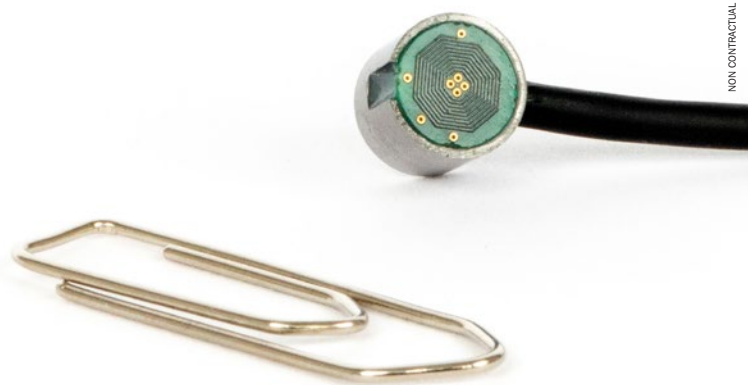
- > High accuracy motion sensing
- > High accuracy closed loop control

KEY FEATURES

- > Contactless
- > Compact
- > Very high accuracy
- > No wear, unaffected by dirt or dust
- > Fully compatible with CTEC ECP Conditioner board

RELATED PRODUCT

- > CTEC ECP Conditioner
- > CTEC ECP option for APA® actuators
- > CTEC Mechanisms



NON CONTRACTUAL PICTURE

SPECIFICATIONS

Preliminary data

PARAMETER	TYPICAL VALUE	UNIT
Sensor type	Eddy Current Sensor	
Range of excitation frequency	>500 kHz	kHz

> Mechanical characteristics

Shielded	Yes	
Probe diameter	8.0	mm
Probe height	7.0	mm

> Measurement Range

Nominal range	500	µm
Extended range	1000	µm
Minimal airgap	50	µm

> Typical accuracy achieved after conditioning

Resolution (BW = 20 kHz) ⁽¹⁾	0.010	% FS ⁽²⁾
Resolution (BW = 1 kHz)	0.003	% FS
Resolution (BW = 20 kHz), extended range (1000 µm)	0.015	% FS
Resolution (BW = 1 kHz), extended range (1000 µm)	0.005	% FS

ANNOTATIONS

(1) BW : Bandwidth

(2) FS : Full Scale

OPERATING ENVIRONMENT

PARAMETER	TYPICAL VALUE	UNIT
Operating temperature range	-25 ... +70	°C
Storage temperature range	-35 ... +100	°C

INTERFACES

Sensor connector	LEMO FGG.00.304.CLAD22	
ECP cable	Dia 2.6 mm Shielded 1.5 m	

OPTIONS

Straight / Right Angle cable	
Integration on CTEC APA® actuators or mechanisms	