

APPLICATIONS

- > Position sensing

KEY FEATURES

- > Eddy current Sensor
- > 4 individual channels or 2 differential channels
- > Nanometter resolution
- > Fast digital communication
- > 16bits analog resolution
- > up to 22bits resolution with digital communication

RELATED PRODUCT

- > Piezo mechanisms
- > Magnetic mechanisms



NON CONTRACTUAL PICTURE

SPECIFICATIONS

PARAMETER	TYPICAL VALUE	UNIT
> General		
Function	Eddy current sensor conditioner for mechanism	
Number channels	2 or 4 Input channels	
Digital communication	RS422, SPI_LVDS, USB	
> Power supply		
Recommended supply voltage	+24	Vdc
Supply voltage range	+9 ... +36	Vdc
Supply current (1)	200	mArms
Power consumption	5	W
> Digital Interface		
RS422	5	MHz
SPI over LVDS	20	MHz
USB (Virtual COM)	115200	baud
Max sampling rate	50	kSps
Digital resolution (2)	22	bits
> Analog Interface		
Output voltage range	-10 ... +10	Vdc
Output resolution	16	bits
> Performances		
Resolution BW 12kHz	Mechanism depending	
Bandwidth 1kHz...12kHz by selection	1...12 by selection	kHz

Linearity (3)	±0.3	%FS
Thermal drift (4)	400	ppm FS/°C

MISCELLANEOUS

Mass	TBD	kg
Dimensions	160 × 170 × 36	mm3
Operating temperature range	-20 ... +70	°C
Storage temperature range	-40 ... +85	°C
Warm up time	10	min

INTERFACES

Supervisor connector	D-Sub25 Female	
Channels connector	LEMO EXG.0B.304.HLN	
PWR/I2C connector	LEMO EXG.1B.306.HLN	

OPTIONS

-2-EP	2 input Channels with embeded Electronic Front-End	
-2-EPS	2 input Channels with deported Electronic Front-End	
-4-EP	4 input Channels with embeded Electronic Front-End	
-4-EPS	4 input Channels with deported Electronic Front-End	

ANNOTATIONS

(1) At recommended supply voltage

(2) Depending on the measurement range

(3) With application of linearisation function

(4) Without differential measurement