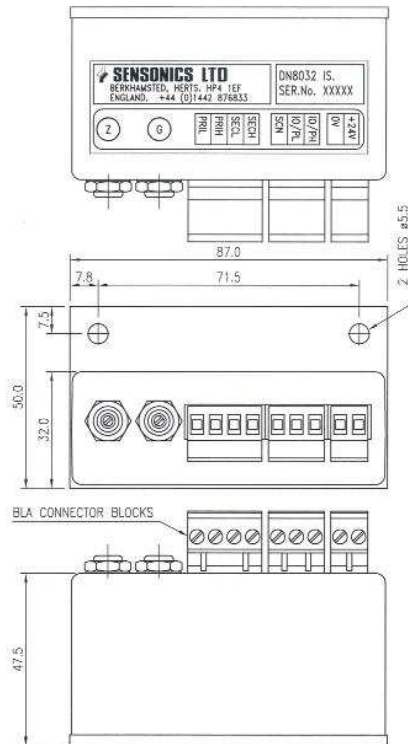


DN 8032 LVDT Signal Conditioning Unit



Features

- 24V DC input
- 4-20mA current output
- For use with AC LVDTs
- Zero and Gain controls.
- Din Rail Mount

The DN 8032 is one of a range of LVDT signal conditioning units offered by Sensonics providing oscillator & demodulator functionality for AC LVDTs.

The unit provides a sinusoidal output at 3kHz for excitation of the transducer, amplification, phase sensitive demodulation and a low pass active filter to give a 4 to 20mA output signal proportional to displacement.

Driven from a +24V power supply, the Din Rail mountable unit provides two miniature multi-turn potentiometers for the setting of the gain and zero point parameters.

Specification

Oscillator:	Amplitude voltage.....	7V rms \pm 5%
	Frequency.....	3kHz \pm 5%
	Amplitude Stability.....	\pm 0.05% per $^{\circ}$ C
Demodulator:	Type.....	Full wave, phase sensitive
	Linearity error.....	Less than 0.1%
Amplifier:	Gain.....	Adjustable, High & Low ranges
	Stability.....	\pm 0.02% per $^{\circ}$ C
	Long term stability.....	\pm 0.2%
	Zero Adjustment	\pm 2V ref input
	Stability of Zero.....	Less than 50 μ V per $^{\circ}$ C
	Frequency Response.....	DC to 100Hz \pm 2%, 250 Hz - 3dB
	Residual Carrier.....	Less Than 0.2% Full Scale
Module:	Loop Resistance.....	300 Ohms
	Input Voltage.....	18V – 36V dc
	Power Consumption.....	2W max (Isolated input)
	Controls.....	Screwdriver - adjusted, multi-turn potentiometer accessible only from outside case.
	Temperature Range.....	-10 to 60 $^{\circ}$ C
	Weight	250 grams
	Available with DIN Rail Mount.	
Connections:	PRIH - Primary Coil (+)	PRI L - Primary Coil (-)
	SECH - Secondary Coil (+)	SECL - Secondary Coil (-)
	IO/PH – 4-20mA Current Output High	
	IO/PL – 4-20mA Current Output Low	
	SCN – Cable Screen (Instrument Ov)	