

ECL130 Linear Output Inductive Driver



Up to six channels of precision displacement measurement: bench-top or embedded applications

Applications that require multiple channels of measurement within a single package need the ECL130 driver. It contains up to six channels of precision, linear output drivers in a small, rugged aluminium case. The drivers are all synchronized, calibrated, and ready to go. Calibration adjustments are accessible for field calibration where necessary. Power and I/O connections are made via separate D-type connectors.

Performance

- Non-Linearity: $\pm 0,25\%FS$
- Resolution: $0,004\%FS$
- Temp. Coefficient: $0,04\%FS/^{\circ}C$
- Frequency Response to 80kHz

Features

- Ferromagnetic or Non-ferromagnetic Targets
- 12-24VDC Input
- Configurable Output Differential or Single-ended
- Small and rigid housing

ECL130 Driver Specifications*		
Resolution:	DC-1kHz	0,004%FS
	DC-10kHz	0,008%FS
	DC-80kHz	0,06%FS
Non-linearity		$\pm 0,25\%FS$
Probe Temperature Coefficient		$\pm 0,04\%FS/^{\circ}C$ ($\pm 0,05\%FS/^{\circ}C$ for U3) from $-25^{\circ}C$ to $+125^{\circ}C$ output @ mid-scale
Driver Input Power		$+12$ to $+15VDC$ $<50mA$ per channel
Driver Outputs (Configurable)	Single-Ended (Ground Referenced)	0-10VDC 0-5VDC
	Differential	$\pm 10VDC$ $\pm 5VDC$
Operating Temperature	Std. Probes	$-25^{\circ}C$ to $+125^{\circ}C$
	Ext. Temp. Probes	$-25^{\circ}C$ to $+200^{\circ}C$
	Driver	$0^{\circ}C$ to $+65^{\circ}C$
Probe Cables	Length	3 meters
	Jacket Material	Std. Temp. PUR
		Ext. Temp. TEFLON
Ratings	Driver	IP40 (CE Pending)
	Probes	Std. Temp. - IP 67
		Ext. Temp. - IP63
Driver Dimensions	Height	56mm
	Width	173mm
	Depth	79mm

*Performance data taken with standard unshielded probes, 15VDC input, normal room ambient, 6061 aluminium target. Specs also apply to 4140 and 303 steels.

