Leaders in Aerospace Controlled Systems?We're positive!



Linear Variable Differential Transformers LVDT

From Sensors to Systems... ■ more feedback, ■ more information, ■ more control, ■ more performance

Our acknowledged leadership in LVDT applications provides *you* with a fast-track engineering solution. We are able to deliver the most cost competitive components, of proven quality and unmatched performance. Components that are, almost certainly, already approved and qualified for *your* application.

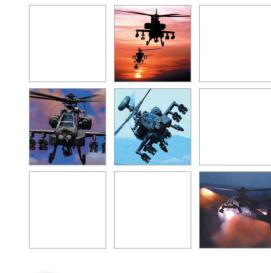
- Aerospace Qualification to RTCA D0160
- High reliability from Non-contacting Technology
- Stroke lengths from 0,25mm to 500mm
- Flight control applications include EFA, NH90, V22, B2 and Ariane 5 with engine applications including V2500, Trent, EJ200 and PW305

The inherent design of the Linear Variable Differential Transformer is rugged. Penny Giles have continuously developed this technology by selecting advanced materials, employing non-contact designs and skilled manufacturing methods to improve the envelope of **Performance** to **Size** to **Cost**

...with uncompromised Reliability.

Our achievements enable you to push your flight envelope for positive advantage.

This data sheet provides typical technical details for specifiers and designers. Talk to your local Penny Giles engineering office about your application and critical parameters. We are always pleased to discuss alternatives and provide a full specification for your system.





The Penny Giles Experience PedigreePositively improves your performance.

www.pennyandgiles.com

Quality Approvals

Penny and Giles are committed to complete customer satisfaction in all products and services. International quality approvals include BS EN ISO9001:1994 and Civil Aviation Authority



Linear Variable Differential Transformers LVDT

Typical outline specification

For further information please contact the sales department as listed below.

length

Mechanical

Dimensions:	See diagram
Mass:	90g to 220g dependant on stroke I
Stroke Length:	Electrical stroke + 1mm each end

Electrical

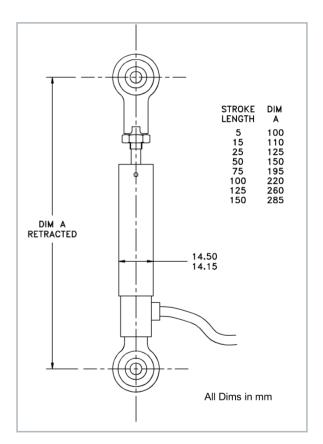
For the temperature range -35°C to +125°C

Supply Voltage:	1 to 10 V ac RMS	
Supply Current:	400 Hz to 12.5 kHz	
Stroke Length:	5mm to 150mm	
Operating Mode:	Ratiometric	
Linearity:	±0.25% fsd	
Resolution:	Virtually infinite	
Temperature Coefficient of Sensitivity:		
	≤ 10ppm/°C	

Environmental

Operating Temperature:-35°C to +125°C		
Altitude:	RTCA D0160-C cat B4 (50,000ft)	
Temperature Variation:	RTCA DO160-C cat B (5°C/min)	
Humity:	RTCA D0160-C cat C (external)	
Operational Shock:	MIL-STD-810 (30g, 11ms, half sine)	
Vibration:	MIL-STD-810 (20g)	
Fluid Susceptibility:	RTCA D0160-C cat F	
Sand and Dust:	RTCA D0160-C cat D	
Fungus Resistance:	RTCA D0160-C cat F	

This data sheet provides basic technical details for the Linear Variable Differential Transformers (LVDT) product. Talk to your Local Penny Giles Engineering Office about your development program or existing fixed wing or helicopter fleet.



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