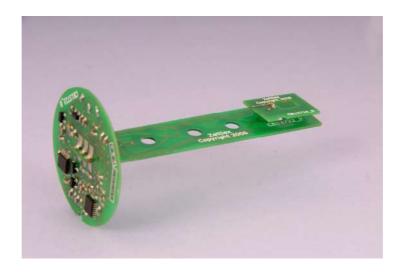


Product Guide Linear Transducer Type 13723-OEM



No contacts, no bearings, no bushes, no fine wires.....just reliable measurements all day, every day.

Zettlex transducers are **non-contacting**, **absolute** position measuring devices. They utilise a unique inductive technique and comprise two main components – a Target and an Antenna. The Antenna is powered with an electrical supply and the Target is passive. An electrical output from the Antenna shows the position of the Target relative to the Antenna.

The 13723 unit is an unpackaged (OEM) transducer for **measurement of linear displacement**. This unit has been specifically designed for **extreme lightweight** (5 gramms only) and generous mechanical motion in axes other than the measurement axis. It can simply be clipped or bonded to a host product and is ideally suited as a lower cost replacement for LVDTs or magnetostrictive devices. There are no electrical contacts so lifetime and operational reliability is far greater than potentiometers – especially in harsh environments

Custom versions are available for OEMs with alternative temperature ranges, mechanical mounts, finer linearity etc. - simply contact Zettlex for further details.

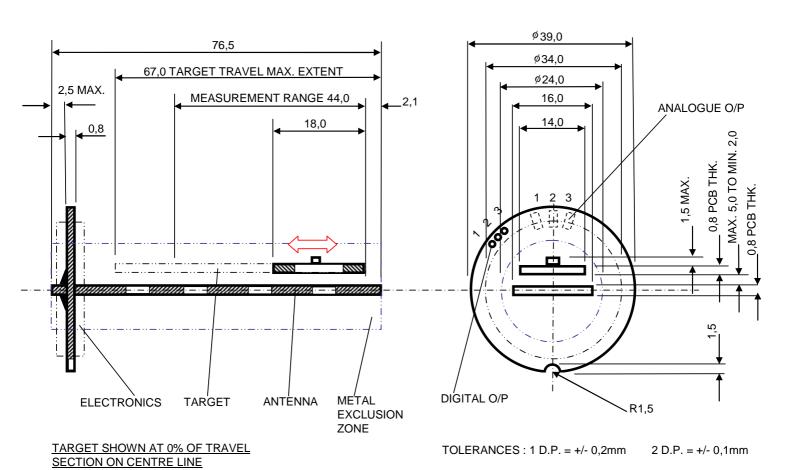
Outline Specification

Output signal	Digital or Analogue Analogue = 0,5 – 4,5VDC (10% - 90% of Supply Voltage) Digital = 10 bit asynchronous serial data	
Full-scale	44mm	
Measurement type	Absolute	
Resolution	53.5µm	
Repeatability	<u><</u> +/-53.5μm	
Linearity	≤+/- 1% Full-scale (0,5%, 0,25% & 0,1% available as options)	



Operating temp.	-40 to 85Celsius	
Power supply	5VDC +/- 5%	
Measurement frequency	100Hz	
EMC	EN50082-2 & EN55011 Group 1, Class A	
Temperature coefficient	<40ppm/K	
Connector	3 pin header for digital output as well as 3 solder pads for analogue output	
Weight	<6gramms	

Dimensions & Installation



Wiring

	<u>Analogue</u>	<u>Digital</u>
Connector Pin 1	GND	V_{supply}
Connector Pin 2	V_{output}	Data
Connector Pin 3	Veunnly	GND



Ordering code

13723 - OEM

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