



INNOVATIVE MEASUREMENT TECHNOLOGY

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Miniature Gauging Transducers

Type 3MTLX10

- Precision Manufacture**
- High Accuracy**
- Half Bridge**
- CE Marking**
- Repairable**



The 3TLX10 miniature gauging transducer is manufactured by IMT to a superior mechanical standard ensuring excellent repeatability and very high accuracy. The transducer is calibrated over the measurement range of ± 1.0 mm with a total mechanical and electrical travel of 2.5mm, and is supplied with two metres of black oil resistant cable terminated into a 5 pin 270° connector as standard. If necessary an alternative connector may be specified at the time of ordering to allow connection to electronic equipment already in use. There may be an extra charge depending on the type of connector specified. IMT are able to calibrate transducers to most types of readout equipment currently available.

Output sensitivity is set at the time of manufacture and is adjusted by electronic components mounted on a small PCB housed in the connector. Where a different connector is used the PCB may be omitted and replaced by a network of components. Calibration is carried out by a computer controlled process using a high precision optical linear encoder as the measurement reference. A certificate of calibration for each transducer is available and can be supplied on request.

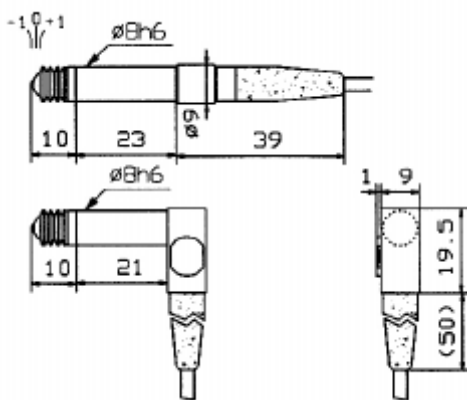
Pre-travel is factory set and not adjustable for this transducer. Both pneumatic push and vacuum retract options are available.

Protection is to class IP64. All TLX transducers carry the CE mark.

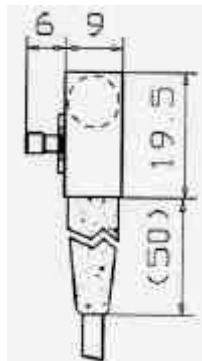


Specification

Transducer Type	3MTLX10A = axial cable exit 3MTLX10R = radial cable exit 3MTLX10RV = vacuum retract 3MTLX10RP = pneumatic push Half Bridge
Configuration	
Mechanical Travel	2.5 mm
Calibrated Range	+/-1.0 mm
Sensitivity without connector	180 mv/v/mm (or as requested)
Sensitivity (IMT standard)	73mv/v/mm into 2k ohm
Connector	DIN 5 pin 270° or as requested
Linearity	<0.3% of total stroke bsl
Repeatability	0.02um
Residual at Zero	<3mV
Carrier Frequency	10kHz and 13kHz
Energising Voltage	1 - 10 v rms,
Bearing Type	Linear Ball
Minimum Life	10 million cycles
Moving Mass	6 grms
Anti-rotation	Max. 2 degrees over full travel
Temperature Range	-10 to +65 ° C. storage and service
Mounting Position	Any position
Ball Tip	Special tip M2.5 with 3mm Tungsten ball
Gaiter Material	Viton rubber
Cable	Black 4 core screened 2m
Spring Force	0.4N at electrical zero (option 0.25 - 4N)
Pre-travel	Factory set not adjustable
Protection Class	IP64
Service	Transducer is repairable



3MTL10A/R



Types MTLX10RV / RP (shown fully extended)

