

- **Contactless design – Inductive technology**
- **Wear-free operation**
- **Stroke lengths up to 1800mm**
- **10.1mm body diameter**
- **Absolute measurement**
- **Infinite resolution**
- **High temperature capability – Up to 200°C or down to -55°C**
- **Working pressures up to 670Bar**
- **Separate signal conditioning (EICT)**
 - **High performance driver circuit**
 - **Zero and span adjustment**
 - **Choice of enclosure designs**



The ICT100 Contactless In-Cylinder Linear Transducer has been specifically designed for mobile and static hydro-pneumatic actuators.

Designed primarily for the off-highway markets, the ICT100 linear transducer provides reliable, fit-and-forget position sensing of the cylinder rod in actuators with strokes up to 1800mm, with a body diameter of only 10.1mm.

It is a robust, non-contact transducer suitable for the harsh conditions of lifting and steering position applications and hydro-pneumatic active suspension systems. It works on an inductive coil principle, with virtually infinite resolution and is capable of withstanding

temperatures down to -55°C and up to +200°C, with working pressures to 670Bar (10,000psi).

The EICT signal-conditioning module has been specifically designed to operate with the Penny and Giles range of SLT and ICT contactless linear position transducers.

The module incorporates a high performance circuit that drives the transducer and provides a choice of output signals with zero and span adjustment for simple user configuration. The module can be supplied in a choice of enclosures, with sealing to IP66 or IP68 protection.

SPECIFICATIONS

ELECTRICAL

MEASUREMENT RANGE	Maximum stroke selectable up to 1800mm
SENSOR RESOLUTION	Infinite
LEAST SQUARES LINEARITY	Refer to ordering code
SENSOR TEMPERATURE COEFFICIENT	<±100ppm of electrical stroke /°C (+20°C to +60°C) <±200ppm of electrical stroke /°C (-20°C to +100°C) <±300ppm of electrical stroke /°C (-20°C to +200°C)

MECHANICAL

MAXIMUM SENSOR WORKING PRESSURE	670Bar
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ENVIRONMENTAL

SENSOR TEMPERATURE RANGE	Operating: Refer to ordering code Storage: -55°C to +200°C
ELECTROMAGNETIC INTERFERENCE	EN61000-6-2, 100V/m (EICTM adjacent to transducer) Derangement <0.05% FS EN61000-6-2, 10V/m (EICT 1m cable to transducer) Derangement <0.05% FS