

XCT0951 - In-cylinder position sensors

Description



The XCT0951 provides reliable internal position sensing of a cylinder rod in hydraulic and pneumatic actuators. It is a robust, non-contacting sensor with integral electronics. With a body diameter of 9.54mm and measurement range up to 300mm (14"), it is ideal for the harsh environments of lifting and steering position applications and active suspension systems. The sensor operates from a 6 to 30Vdc unregulated supply and has a low noise, virtually infinite resolution analogue output of 0.5V to 4.5V. The XCT's precision inductive coils have enabled an improved temperature performance (low thermal drift) compared to other similar inductive products which is typically $<\pm 0.01\%FS/^{\circ}C$.

Specification

Measurement range	25mm to 300mm
Input voltage	6Vdc to 30Vdc
Output voltage	Analogue 0.5 to 4.5V
Non-linearity	$<0.3\%$
Operating temperature	$-40^{\circ}C$ to $125^{\circ}C$
Sensor body mounting	Threaded flange (M16x1.5 or 5/8th -18UNF)
Operating shaft mounting	Threaded shaft (M6 or 1/4"-28UNF)
Cable length	1.0M

Assured performance

Active Sensors product development processes include exhaustive 'in-house and field testing' to ensure the sensor performance specification stated is backed by 'real-life' experience. This is our assurance to customers that our sensors are designed to perform!