

XLT0958

XLT (LVIT) linear sensor

(Linear Variable Inductive Transducer)

The XLT0958 (LVIT) is a compact long life linear position sensor housed in a slim 9.54mmØ stainless steel body. The sensor has a separate signal-conditioning unit designed to operate remotely from the LVIT sensor for applications that do not permit the use of integral electronics, which are usually a high temperature environment or mounting space restrictions.

It operates from a 5Vdc regulated supply with an output signal of 0.5V to 4.5Vdc over the measurement range up to 60mm. The XLT's precision inductive coils have enabled an improved temperature performance (low thermal drift) compared to other inductive products, which is typically $<\pm 0.01\%FS/^{\circ}C$.

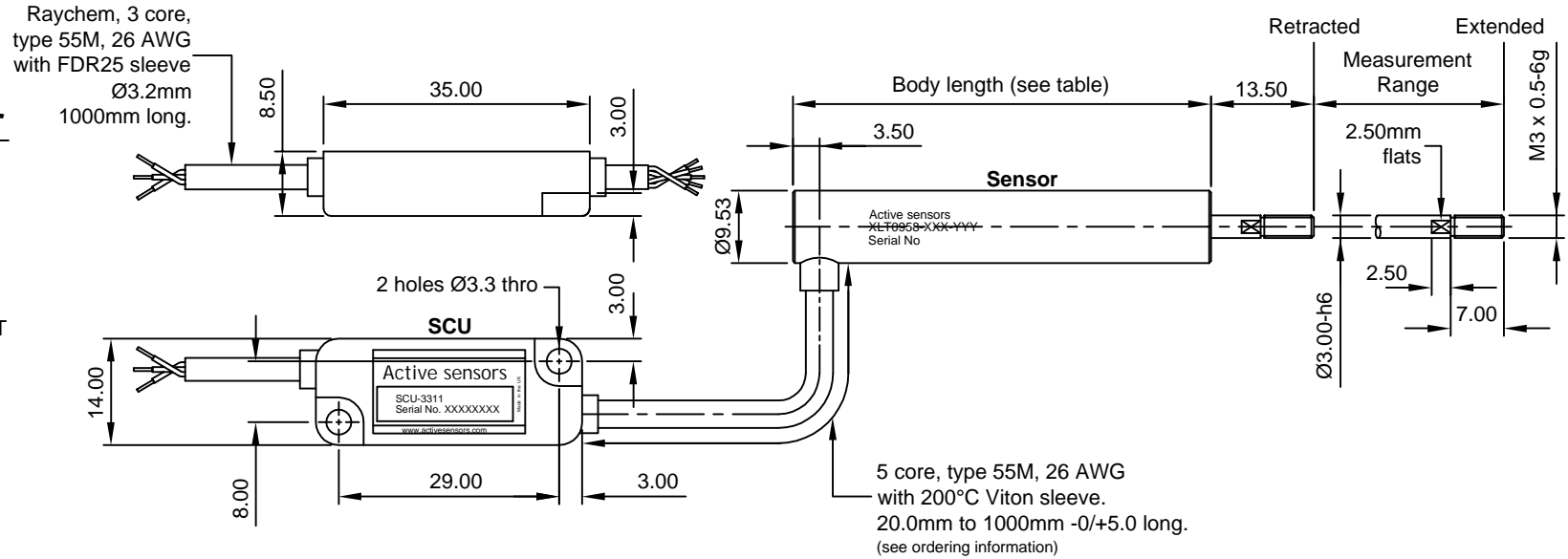
The manufacturing techniques employed in sensor production enable the necessary environmental protection required to provide a stable electrical output under vibration, acceleration, mechanical and thermal shock.

Other models in this range

- XLT0956 - Body clamp mounting
- XLT0957 - Flange mounting
- XLT0959 - Duplex model (twin outputs)



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Electrical & Mechanical Information

Measurement range	10	15	20	25	30	40	50	60	mm
Body length	45.0	45.0	55.0	55.0	65.0	75.0	80.0	90.0	mm
Input voltage (+Vs)	5 ±5%								
Supply current	<10								
Output voltage (Vo) (see note 2)	0.5 to 4.5								
Non-Linearity	<±0.50								
Thermal drift	<±0.01%								
Output load	>150								
Output noise and ripple	0.1%								
Frequency response (-3dB)	500 (Nom)								
Operating temp. range	Sensor -40° to +180°				SCU -40° to +125°				°C
Environmental	IP66								
Material	Sensor - Stainless Steel 416				SCU - Aluminium				

Note 1: Incorrect wiring may cause internal damage to the sensor. 2. Output (Vo) ratiometric with input (+Vs).

