

XLT1328

XLT (LVIT) linear sensor

(Linear Variable Inductive Transducer)

The XLT1328 (LVIT) is a long life linear position sensor housed in a 12.7mmØ 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 200mm. The XLT's precision inductive coils have enabled an improved temperature performance (low thermal drift) compared to other inductive products, which is typically $\leq \pm 0.01\%FS/^{\circ}C$.

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.

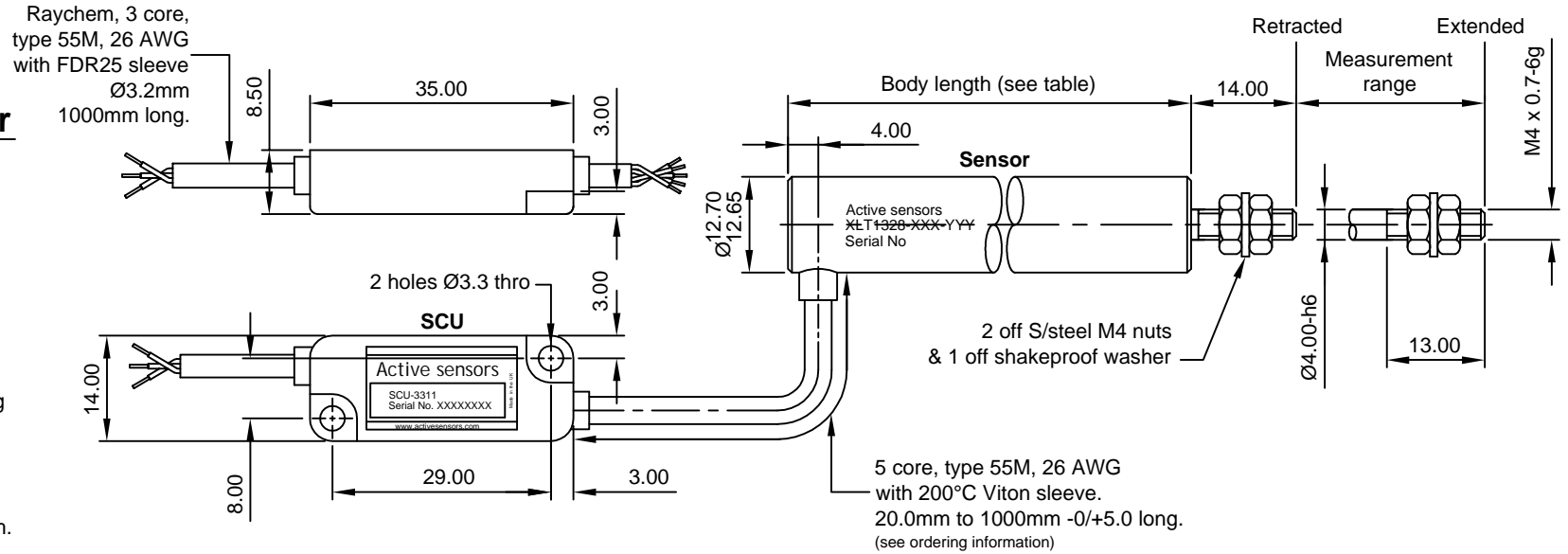
Other models in this range

XLT1321 - Body clamp mounting (12.70mm body Ø)

XLT1325 - Rod-end mounting (12.70mm body Ø)

Active sensors

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Electrical & Mechanical Information

Measurement range	25	50	75	100	150	200	mm
Body length	80.0	105.0	130.0	155.0	205.0	255.0	mm
Input voltage (+Vs)	5 \pm 5%						Volts DC
Supply current	<10						mA dc
Output voltage (Vo) (see note 2)	0.5 to 4.5						Volts DC
Non-Linearity	$\leq \pm 0.50$						%
Thermal drift	$\leq \pm 0.01\%$						FS/ $^{\circ}C$
Output load	>150						ohms
Output noise and ripple	0.1%						FS (pk-pk)
Frequency response (-3dB)	500 (Nom)						Hz
Operating temp. range	Sensor -40° to +180°			SCU -40° to +125°			$^{\circ}C$
Environmental	IP66						
Material	Sensor - Stainless Steel 410			SCU - Aluminium			

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

