

XLTD0957

XLT (LVIT) linear sensor

(Linear Variable Inductive Transducer)

The XLTD0957 is a compact, body mounted long life, high temperature linear position duplex sensor with integral electronics. It is housed in slim 9.54mm \varnothing stainless steel bodies and has fully encapsulated, sealed internal electronics and electrical connections. The sensor is manufactured to quality standards required for high performance, high cyclic control and measurement systems.

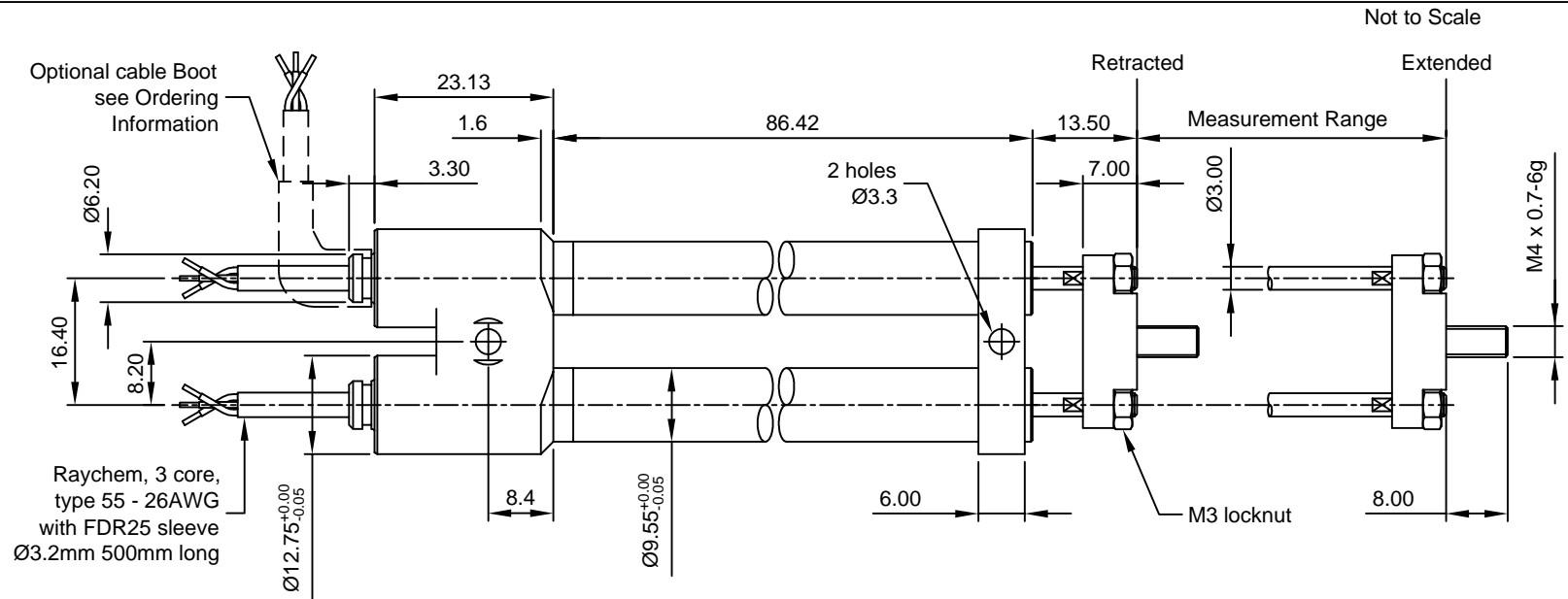
With a measurement range of 60mm, the sensor operates from a 5Vdc regulated supply with a low noise analogue output of 0.5V to 4.5Vdc. The XLT's precision wound inductive coils enable an improved temperature performance (low thermal drift, typically $<\pm 0.01\%FS/^{\circ}C$), compared to other similar inductive products.

Other models in this range

XLT095X Higher temperature model with separate signal conditioning

XLT1320 - Choice of mounting (12.70mm body \varnothing)

XLT132X - Higher temperature model with separate signal conditioning

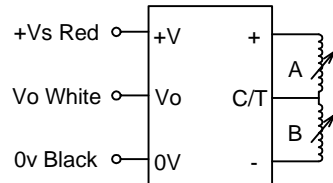


Electrical & Mechanical Information per channel

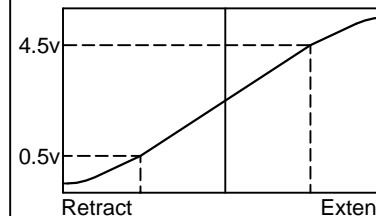
Measurement range	60	mm
Input voltage (+Vs)	5 $\pm 5\%$	Volts DC
Supply current	<10	mA dc
Output voltage (Vo)	0.5 to 4.5	Volts DC
Non-Linearity	< ± 0.5	%
Phasing (channel to channel)	<1.0	%
Thermal drift	< $\pm 0.01\%$	FS/ $^{\circ}C$
Output load	>150	ohms
Output noise and ripple	0.1%	FS (pk-pk)
Frequency response (-3dB)	500 (Nom)	Hz
Operating temp. range	-40 $^{\circ}$ to +125 $^{\circ}$	$^{\circ}C$
Environmental	Sealed	
Case material	Stainless Steel 416	

Note 1: Incorrect wiring may cause internal damage to the sensor.

Electrical Connections



XLTD0 DC Output Schematic (per channel)



Ordering Information

XLTD0957-060

Optional Heatshrink Cable Boot
JN025-016 (supplied loose)

Active sensors

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