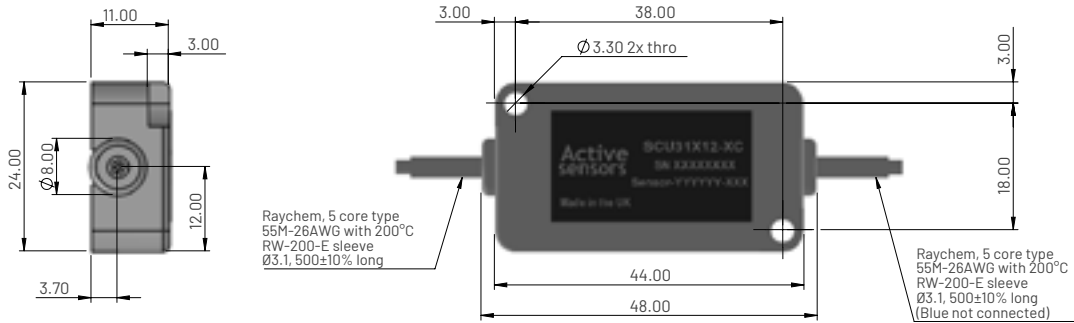


SCU31X2-XC Series - LVDT Signal Conditioning Unit (SCU)

Compact housing. CAN Bus output.

Dimensions



Ordering information

SCU31X2-XC

Supply voltage type _____
(See specification)

Output _____
R = Output retracting
E = Output extending
(See output graph and note 3)

Electrical and mechanical specification

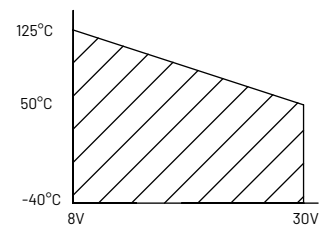
Order code	SCU3112	SCU3122	
Supply voltage (+Vs)	5±10%	8 to 30 (see de-rating graph)	VDC
Supply current		<60	mA
Reverse polarity protection	None	Up to -50	VDC
Over voltage protection	None	Up to 50	VDC
Input voltage rise time		>0.25	V/ms
Ideal output reading at null		2047	counts
Ideal output range		±2000	counts
Output resolution		0.025	% of measurement range
Non-Linearity (note 2)		<0.20	%FS
Output noise		<±5	counts
Update rate		>2	ms
Default base address (note 6)		123 (0x7B)(UP)	
Baud rates		250, 500, 1000 (*) (UP)	Kbps
Transmission rate		1, 10, 20, 50, 100 (*), 200 (UP)	Hz
Termination		Not terminated	
LVDT excitation voltage		3	VRMS
LVDT excitation frequency		5	Khz
Operating temperature	-40 to +125	See de-rating graph	°C
Temperature coefficient	<TBD	<TBD	ppm/°C
Environmental		IP67	
Weight (approx.)		20	grams
Materials	Case - Aluminium alloy. Cover - Stainless steel		

Electrical connections (see note 1)

Wire Colour	LVDT Connection
Red	Primary +
Black	Primary -
Green	Secondary centre
Blue	Secondary A
Yellow	Secondary B
Wire Colour	System Connection
Red	Supply (+Vs)
Black	Supply (0V)
Yellow	CAN high
Green	CAN low

Operational temperature

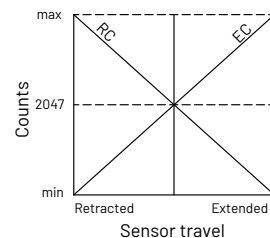
SCU input volts vs temp (TBD)



Notes

1. Incorrect wiring may cause internal damage.
2. Non-linearity is calculated from least squares best fit method.
3. LVDT wire colours listed match Active Sensors standard LVDTs.
4. When ordering SCU please state which LVDT the SCU will be paired with.
5. (*) indicates default option (UP) denotes setting is user programmable.
6. The unit uses an additional CAN address which is consecutive from the base address.

Typical output voltage



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