

Incremental Sinusoidal Signals $\sim 1V_{pp}$

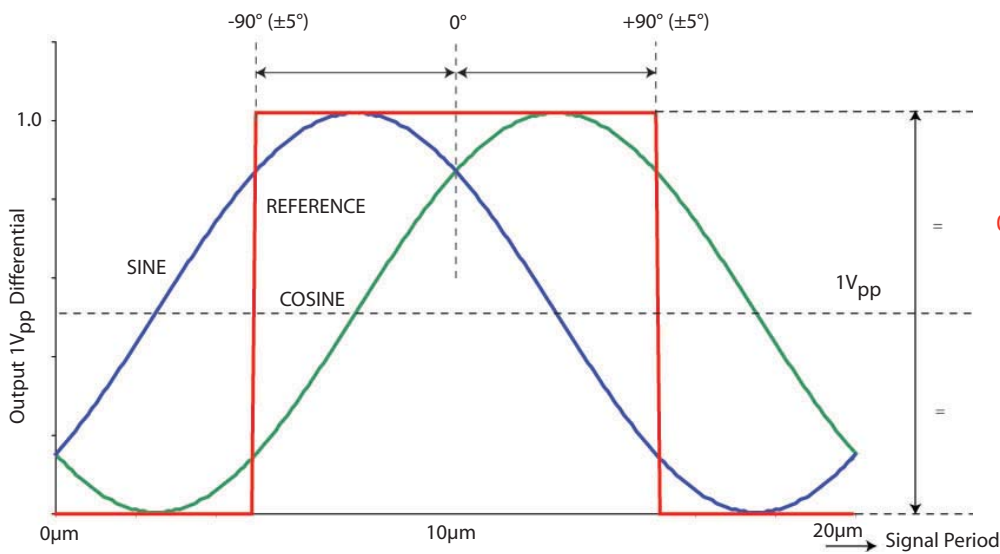
The SCC 200 signal converter is for use with Newall MHG-VP, SHG-VP, SHG-VS and SHG-AV series Incremental and Absolute Linear Encoders.

The sinusoidal incremental signals are produced by advanced processing of both the A and B signal channels. These channels are phase shifted by 90° and have a signal level of $1V_{pp}$ differential when terminated using the recommended circuitry with a common mode voltage of 2.5V. The signal levels are maintained at all speed levels providing no loss of signal integrity with increasing scanning frequency.

Note: The SCC200 is designed for DIN rail mount. (European DIN rail standards: EN50022 & EN50035)

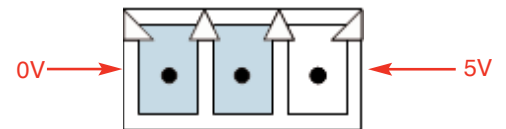
Part Numbers

- 600-82870 For use with MHG-VP Incremental Linear Encoders
- 600-82875 For use with SHG-VP, SHG-VS and SHG-AV Incremental and Absolute Linear Encoders

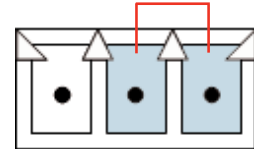


Input Power Connection

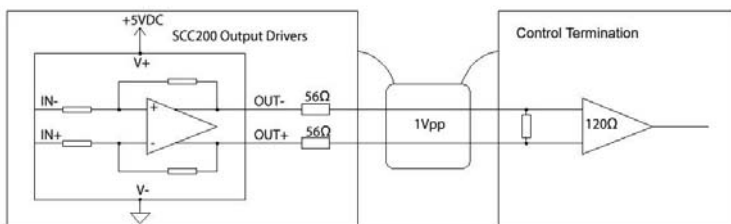
If the control **cannot** provide the required power, an external supply can be connected.



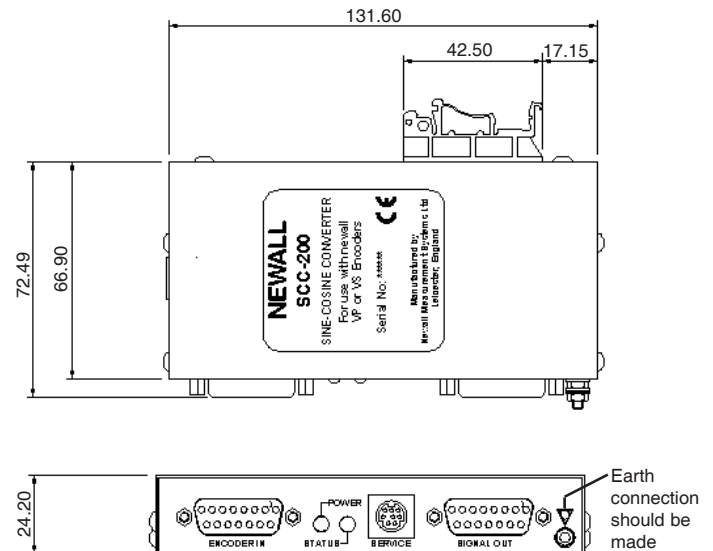
If the control **can** supply the required power, insert the link provided as shown below.



Recommended Input Circuitry at Terminating Electronics



Dimensions



Specification

Power Supply (System)	5VDC $\pm 5\%$ <300mA
Operating Temperature	0° to 55°C
Storage Temperature	-20° to 70°C
Ingress Protection Level	IP54
EMC Compliance	BS EN 50081-2 BS EN 50082-2
Sinusoidal Voltage Output Signal	$\sim 1V_{pp}$ differential
Sinusoidal Signals A & B* Signal Levels	0.8 to 1.2V _{pp} *, typically 1V _{pp}
Amplitude Ratio (A to B)	0.95 to 1.05
Phase Angle	90° \pm 5° elec
Ref. Mark Zero Crossover Point	$\pm 90^\circ \pm 5^\circ$ elec
Dimensions (SCC200 only)	131mm x 67mm x 24mm**
Weight (SCC200 only)	0.5lbs (0.23kg)

* With recommended input circuitry at terminating electronics

** Dimensions do not include optional link or DIN rail mount



Optional link shown in picture

SCC200 Connections

Signal Out Connector

15 pin male D type

Pin Number	VS, VP Function	AV Function
1	Reserved	SSI CLK +
2	Reserved	Reserved
3	Reserved	Reserved
4	RM-	Reserved
5	B-	B-
6	A-	A-
7	Reserved	Reserved
8	5V	5V
9	Reserved	SSI CLK-
10	Reserved	SSI DATA+
11	Reserved	SSI DATA-
12	RM	Reserved
13	B+	B+
14	A+	A+
15	0V	0V
Shall	Ground	Ground

SCC200 LED Conditions

Power	
LED	Power Status
Off	No Power
Orange	Low 5V to encoder
Green	Operational

Status				
LED	MHG-VP	SHG-VS	SHG-VP	SHG-AV
Off	Normal	Normal	N/A	Normal
Orange	REF	REF	REF	N/A
Green	N/A	Sensor	Normal	N/A
Red	Encoder disconnected or Encoder failure			

Connections marked as reserved should be left unconnected to avoid damage