

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

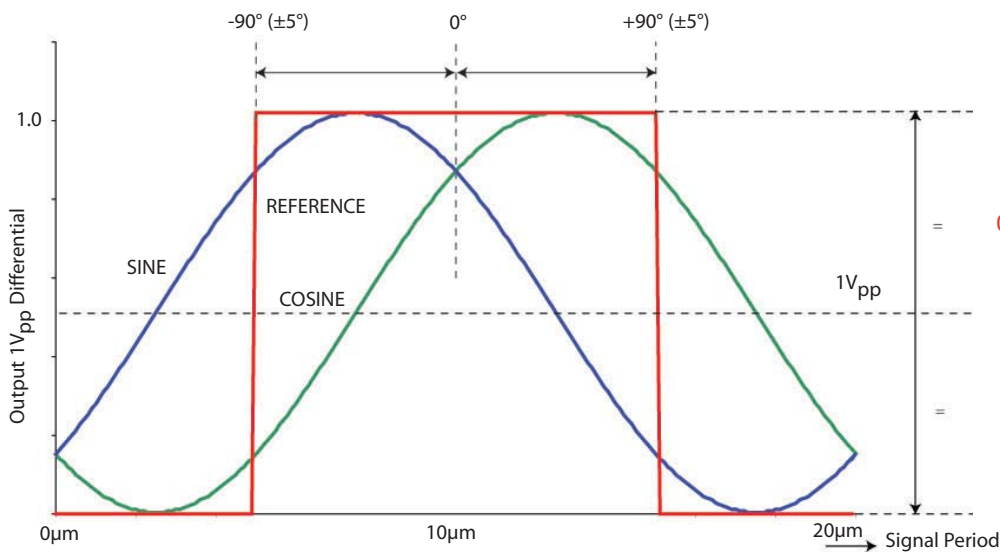
The SCC 200 signal converter is for use with Newall MHG-VP, SHG-VP, SHG-VS and SHG-AV series Incremental and Absolute Linear Encoders.

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)

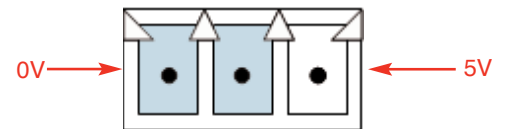
Part Numbers

- 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

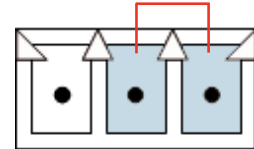


Input Power Connection

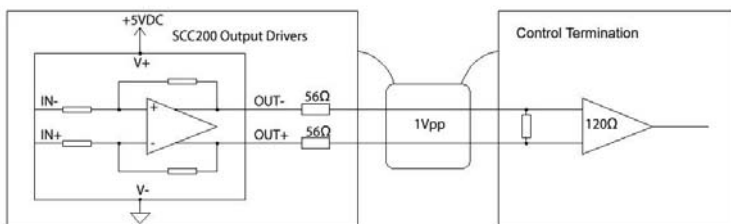
If the control **cannot** provide the required power, an external supply can be connected.



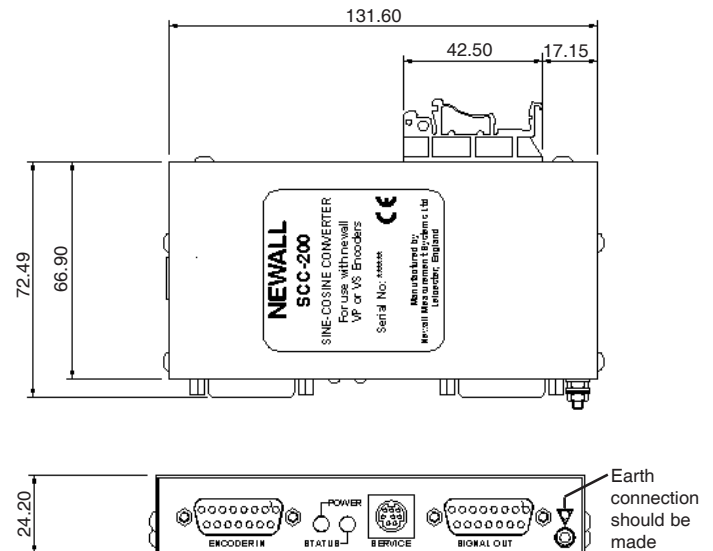
If the control **can** supply the required power, insert the link provided as shown below.



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° \pm 5° 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

Connections marked as reserved should be left unconnected to avoid damage

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			