SCC-200 Converter Datasheet

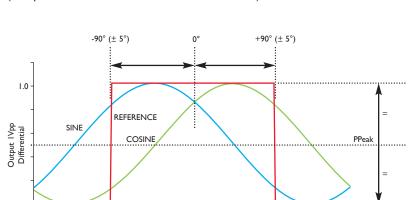


Incremental Sinusoidal Signals ~I Vpp

The SCC-200 signal converter is for use with Newall MHG-VP, SHG-VP, SHG-VS and SHG-AV series incremental linear encoders.

The sinusoidal incremental signals are digitally derived but due to advanced processing a near pure sinusoid is produced for both the A and B signal channels. These channels are phase shifted by 90° and have a signal level of IVpp 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 SCC-200 can be DIN rail mounted. (European DIN rail standards: EN50022 & EN50035)



I0µm

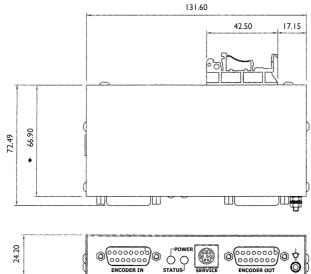
Power Supply (system)	5VDC +/-5% <300mA	
Operating Temperature	0 to 55°C	
Storage Temperature	-20 to 70°C	
Ingress Protection Level	IP54	
EMC Compliance	BS EN 50081-2 BS EN 50082-2	
Drawing Number	316-81750	
Sinusoidal Voltage Output Signal	~IVpp differential	
Sinusoidal Signals A & B* Signal Levels	0.8 to 1.2Vpp Typically 1Vpp	
Amplitude Ratio (A to B)	0.95 to 1.05	
Phase Angle	90° ± 5° elec	
Ref. Mark Zero Crossover Point	± 90° ± 5° elec	
Dimensions (SCC200 only)	131mm x 67mm x 24mm	
Weight (SCC200 only)	0.5lbs (0.23kg)	

^{*}With recommended input circuitry at terminating electronics.



Part Numbers:

- 600-82870 = Use with MHG-VP series encoders
- 600-82875 = Use with SHG-VP, SHG-VS and SHG-AV series encoders

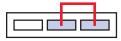


Input Power Connection

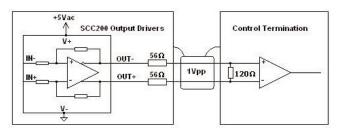
If the control can not provide the required power, an external supply can be connected.



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



Recommended Input Circuitry at Terminating Electronics



023-80750/2 UK

20µm

Signal Period

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SCC200 Connections Encoder Output 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+	
П	Reserved	SSI DATA-	
12	RM	Reserved	
13	B+	B+	
14	A+	A+	
15	0V	0V	
Shell	Ground	Ground	

Connections marked as reserved should be left unconnected or damage may result

SCC200 LED Conditions

The SCC200 has two LED's to aid setup and diagnostics.

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

Power					
LED	MHG-TT	SHG-TT	SHG-TS	SHG-AV	
Off	Normal	N/A	Normal	N/A	
Orange	N/A	Normal	Insert	Normal	
Green	REF	REF	REF	N/A	