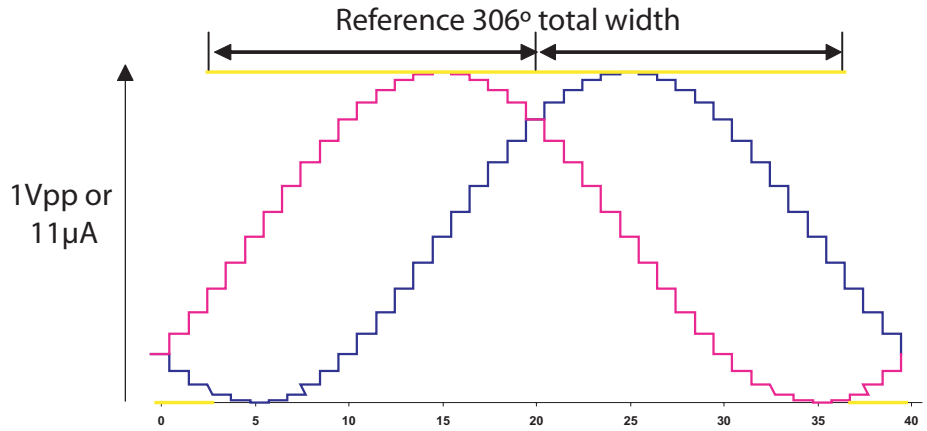
INTRODUCTION

The SVV/SVM Sine-Cosine converters takes the quadrature, differential, output signals from a suitably matched SHG-VV/VM or MHG-VV/VM encoder and converts these signals to analogue Sine and Cosine levels.

The SVV module provides 1V p-p and the SVM module provides 11mA p-p standards. Both provide differential signals and a 'digital' reference marker signal as shown below. The SVV and SVM are suitable for Digital Readout and Automation applications. For CNC and high performance automation applications please refer to the SCC 200.

ANALOGUE OUTPUT SIGNALS



Note: 40-micron period also available with MHG-VV or MHG-VM Encoders

Assumes 120Ω termination resistor

ELECTRICAL REQUIREMENTS

Model	SVV (Part Number 600-83640) SVM (Part Number 600-83650)
Supply from Controller:	5V ±-5%
Encoder Input:	9 pin D type conenctor (Newall pin-out specification)
Output to Controller:	Differential analogue signals
Module output Connector:	9 way D type connector
Typical current consumption: **(No encoder)**	110mA (VCC = 5.0V)
Typical current consumption: **(With Spherosyn™/Microsyn™ Digital)**	190mA
Maximum input quadrature rates:	12MHz

ENCODER CONNECTIONS

PIN	CONNECTION
1	Do not connect
2	Channel A
3	Channel /A
4	Channel B
5	Channel /B
6	0V
7	5V
8	Channel RM
9	Channel /RM

The connector shell should be tied to the encoder screen.

INSTALLATION

Ensure the unit is located clear of any coolants or sources of contamination. The unit should be firmly mounted using the mounting points and screws provided.