

Introduction

This power management interface module enables a 5V SHG-TT/TS or MHG-TT linear encoder to operate from a 5-28V supply. Output levels remain at RS422 5V quadrature levels.

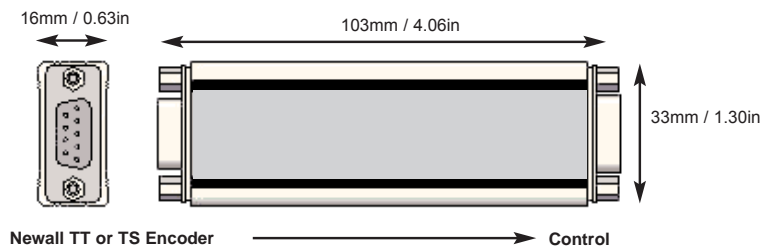
Model	SPT (Part No. 600-83580)	5-28V _{in} , 5V TTL out (Line driver 26C31)
Power requirements	Voltage Output power	5V to 28V ± 5% 1.5W max (<150mA at 5V)
Output signals	Differential quadrature signals Phase angle A to B Frequency range	A, B, \bar{A} , \bar{B} 90° 0-2MHz, equivalent to 2ms ⁻¹ with 1µm resolution
Reference mark Signal	Differential Reference RM & \bar{RM} Periodic or Single Point	As per Encoder
Enclosure	Material Sealing	Aluminium extrusion IP54
Temperature	Operation Storage	0 to 55°C -20 to 85°C

Connection Details

9D Connector Pin No	Module (Female) RS422 (Encoder)	Module (Male) RS422 (Control)
1	N/C	N/C
2	A	A
3	/A	/A
4	B	B
5	/B	/B
6	0V	0V
7	5V supply out	5-28V supply in
8	RM	RM
9	/RM	/RM
Shell	Gnd	Gnd



Dimensions



Installation

ANSI/ESD S8.1-2001

The module is to be situated between the encoder and the control system and connected as per the above pin-out. Care must be taken to ensure the location of the module is such that it is not exposed to environmental conditions beyond its IP rating. Ensure that the connection locking is secure.