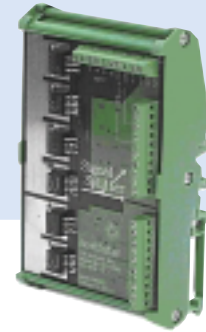


RIM SS2 Signal Splitter



- Eliminates the need for two encoders
- Routes signals to multiple locations, repeats and amplifies
- Provides two independent, isolated 5-26 VDC line driver outputs
- Compatible with virtually all incremental encoders

APPLICATION/INDUSTRY

The NorthStar brand Signal Splitter isolates and duplicates encoder outputs. It is designed to route one encoder's signals to multiple, isolated locations.

DESCRIPTION

The Signal Splitter will accept 4-26 VDC signals and provide two independent and completely isolated line driver outputs of 5-26 VDC based on user defined voltage levels. Its optically isolated inputs accept quadrature or single channel inputs, with or without their complements, from differential line drivers, open collector, and even from proximity probes. The Signal Splitter also has the ability to repeat and amplify signals.

Each output of the Signal Splitter is user definable from 5 to 26 VDC. In addition to short circuit protection, outputs are ESD protected according to MIL-STD-883. Each connector of the Signal Splitter is equipped with two positions for +VCC and common, as well as two extra field accessible tie points, making power supply connections simple and quick. Capable of driving the output signal up to 26 VDC, the Signal Splitter will also function with either output disconnected.

FEATURES AND BENEFITS

- Eliminates the expense and maintenance of two separate encoders
- Optically isolated outputs can be sent to a motor drive and a display at the same time
- Compatible with virtually every incremental digital encoder
- Combats long distance and electrical interference problems

SPECIFICATIONS

STANDARD OPERATING CHARACTERISTICS

Input Signal: 2 or 3 channel quadrature signal, sine or square wave, open collector, differential, or single ended line driver

ELECTRICAL

Input Signal Voltage: 4 - 26 VDC
 Input Signal Current: 2.2 mA minimum, 3.5 mA typical
 Input Impedance: Optically isolated, 1 kOhm at 4V, 6.8 kOhms at 24V typical. Current limited.
 Frequency Range: 0 - 120 kHz
 Output Signal: Two independent, isolated line driver output sets (A/A, B/B)
 Supply Voltage: 5 - 26 VDC
 Output Current: 150 mA (maximum per channel)
 Wire Gauge Accepted: 26 - 16 AWG
 Output Protection: ESD to MIL-STD-883 and short circuit protected

MECHANICAL

Enclosure Material: PVC
 Mounting Options: DIN 32 or 35

ENVIRONMENTAL

Operating Temperature: 0°C to 50°C
 Storage Temperature: -20°C to 70°C
 Operational Humidity: 98% non-condensing

ORDERING INFORMATION

Part Number: RIM SS2

DIMENSIONS

inches [mm]

