

The Splitter module (6390) divides the encoder counts it receives for use by auxiliary components such as PLCs and printers. It provides several abilities, including:

- Driving multiple controllers from a single encoder
- Using multiple encoders on a single-encoder system

The Splitter is designed for use with 5-volt TTL logic quadrature encoders. It uses differential line driver outputs as well as single-ended transistor outputs.



FUNCTIONS

The Splitter module features four specific functions:

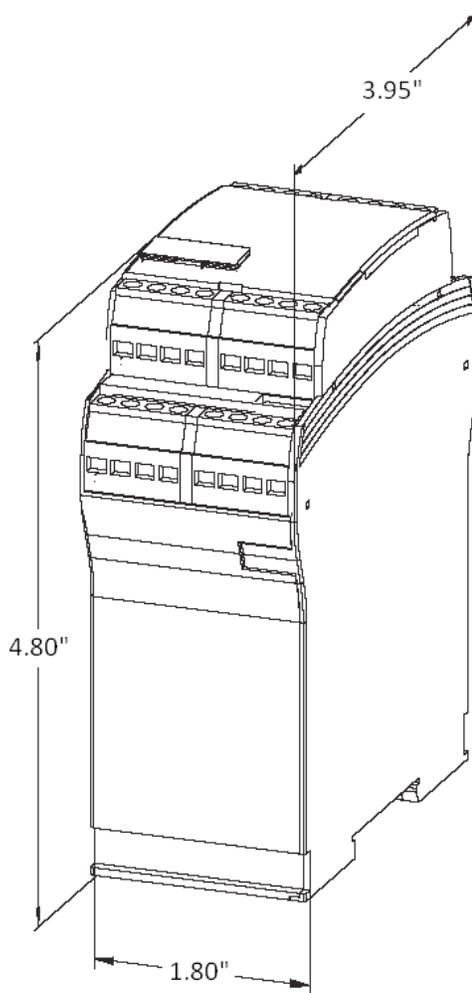
Sharing one line encoder among separate controllers (up to four). Up to four separate controllers can share the same line encoder using the Splitter module to divide the line encoder signal among them. The switches can divide counts for specific applications; you have the option to have the splitter pass along the exact count from the encoder, or divide the encoder count by 2, 3, 4, 6, 8, 12, 16, 24, 32, 64, and 128, depending on the output in use.

Dividing an encoder signal to communicate with different printer setups. By dividing the encoder counts by 2, 3, 4, 6, 8, 12, 16, 24, 32, 64, and 128, the Splitter can communicate with a wide variety of printer configurations.

Selecting between two encoder signals to send information to the controller. For a line with two encoders, the Splitter module can function as an “encoder signal selector” – counts from two encoders come to the Splitter, which then sends only one of them to the controller. For example, some applications require that one encoder be used to measure length and line speed up to a specified point in the line. After that point, a second encoder takes over sending information to the controller. The Splitter module provides the switching for the two encoders, based on a signal from an input device such as a sheet detect switch.

Communicating with peripherals that require input greater than 5 volts. Using transistor output, the Splitter module can communicate with a PLC or any other peripherals that require input greater than 5 volts.

DIMENSIONS



SPECIFICATIONS

General:

DC Power Supply: 24VDC
@ 200ma, 5W

Temp Range: 0° C - 57° C
(32° - 135° F)

Input Select: 24VDC, 15mA

Encoder Input:

Encoder 1 and 2:
RS422, 250KHz per channel,
1M counts per second

Encoder Output:

Encoder 2, 3 and 4:
RS422, 250KHz per channel,
1M counts per second

Encoder 5:

3.3V - 12V @ 8mA, 12V - 50V
@ 30mA
20KHz per channel, 80K
counts per second

ACCESSORIES AVAILABLE

AMS Controls offers a full line of encoder accessories including:

- Cables
- Brackets
- Phenolic wheels
- Knurled wheels

For a detailed listing of available products, visit www.amscontrols.com

