



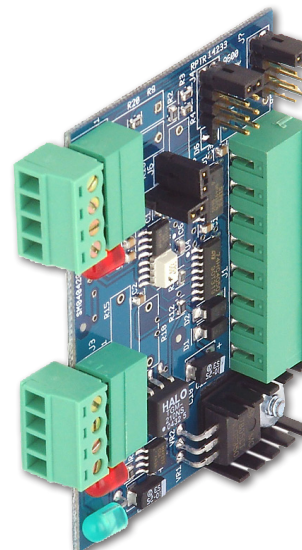
Overview

RS-485 is the most common communications standard for DDC controllers; however, it is limited to 32 unit loads and 4,000 feet. Extending the network beyond 32 unit loads or 4,000 feet requires repeaters.

BAPI's RPTR connects two RS-485 segments together. Data from one segment repeats to the other segment and vice versa. Each RPTR module allows an additional 32 unit loads or 4,000 feet.

The RPTR module plugs into the communications repeater backplanes (RBP4, RPB8, SRBP). Additional RPTR modules plugged into the backplane will form a star network, allowing multiple segments to connect to the same point. Each repeater module consumes one unit load for the primary RS-485 network and one unit load for the repeated network.

A green power LED indicates that 12 VDC is present to the module. A red LED at each RS-485 network connector flashes when data is transmitted.



RPTR - RS-485 Repeater

Part Number	Description
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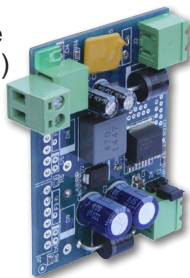
BA/RPTR.....	RS-485 Repeater
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BA/RPTR-KIT.....	RS-485 Repeater Communication Kit (see page G25)
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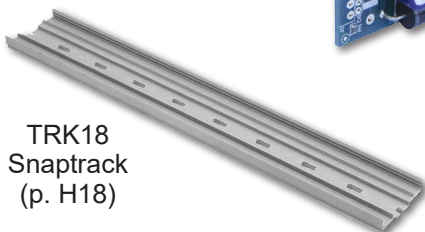
Kit includes one RS-485 Repeater (RPTR) Module, a 350 mA voltage converter (VC350A), a Single Repeater Backplane (SRBP) and a 4" piece of 2.75" snaptrack

Associated Products

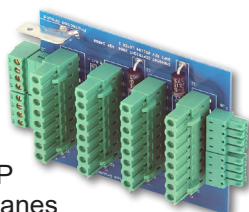
3324VC Voltage Converter (p. H8)



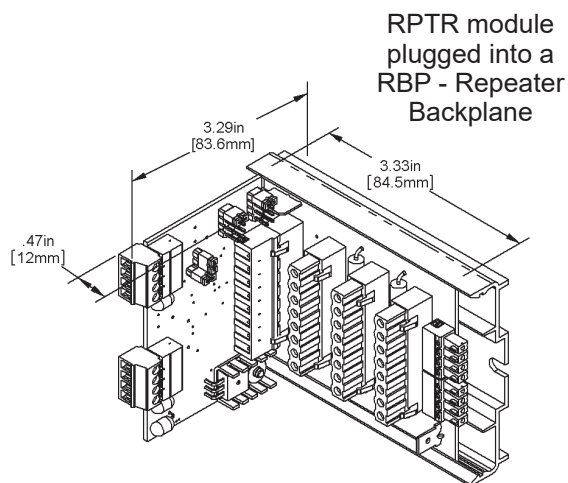
TRK18 Snaptrack (p. H18)



RBP or SRBP Repeater Backplanes (p. H30-32)



Specifications



- Power Voltage:** 11 to 13 VDC
- Power Current:** 250 mA max. (3 VA max.)
- Communications Rates:** 9.6K, 19.2K and 38.4K Baud
- Network Load:** 1 unit load
- Network Length:** 4,000 ft (1.2 Km)