



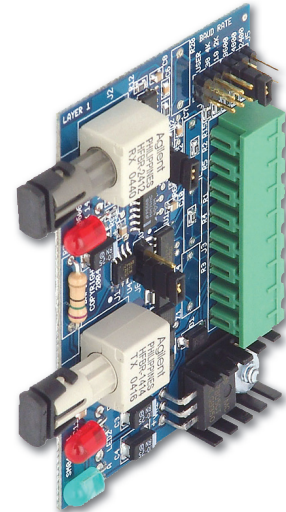
## Overview

BAPI recommends fiber optic cable for HVAC communications networks that travel between buildings.

The FOX - Fiber Optic Transceiver converts the RS-485 data from the copper network to a fiber optic signal for transmission to other buildings. A FOX in the other building converts the fiber optic signal back into RS-485 for the remote copper network.

The FOX module accepts the multi-mode fiber cable on standard ST connectors. The copper RS-485 connection is made on the 8-pole plug along with the power and ground connections. The FOX also plugs into the communications repeater backplane (RBP). Each FOX module consumes one unit load on the RS-485 bus.

A green power LED indicates that 12 VDC is present to the module. A red LED at each fiber cable connection flashes when data is transmitted or received.



**FOX - RS-485 Fiber Optic Transceiver**

### Part Number      Description

**BA/FOX** ..... RS-485 Fiber Optic Transceiver

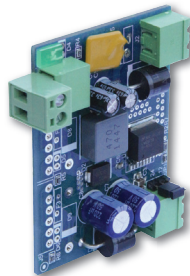
**BA/FOX-KIT** ..... FOX Communication Kit (see page G25)

*includes one Fiber Optic Transceiver (FOX) Module, a 350 mA voltage converter (VC350A), a Single Repeater Backplane (SRBP) and a 4" piece of 2.75" snaptrack*

*See end of Section G for list pricing.*

## Associated Products

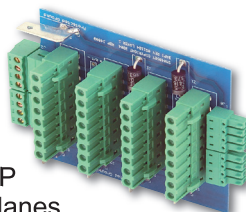
3312VC Voltage Converter  
(p. G11)



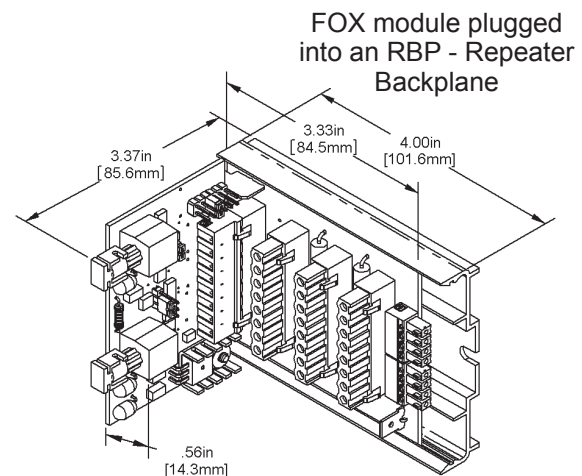
TRK18  
Snaptrack  
(p. G18)



RBP or SRBP  
Repeater Backplanes  
(p. G30-32)



## Specifications



**Power Voltage:** 11 to 13 VDC

**Power Current:** 250 mA max. (3 VA max )

**Communications rates:**

2.4K, 4.8K, 9.6K, 19.2K and 38.4K Baud

**Network Load:** 1 unit load (RS-485 side)

**Optical Network Length:**

10,500 ft (3,200 meters)  
(max. attenuation of 4 dB/Km)

**RS-485 Network Length:** 4,000 ft (1.2Km)