Bar Code Reader Installation Instructions

Product summary

Bar Code Readers (60-568) are best for the following applications:

- Facilities adding access control to a bar code time and attendance system
- Cost savings are a primary consideration
- Multiple card technologies are required

Bar Code Readers provide the following features:

- Weather resistant
- Reads cards from right to left or left to right
- Optionally outputs Wiegand and magnetic-stripe information

Note: Read the manufacturer's installation instructions before proceeding.

Installation

The following instructions describe installing the Bar Code Reader with Advent Access 1251 or 451 Access Point Managers (APM).

Installation guidelines

Note: Do not attempt to power the bar code reader from the 5VDC power outputs on the APM. Doing so could overload the APM's power supply and result in improper operation of the proximity reader.

- The readers are supplied with a small circuit board, which converts 12VDC power to 5VDC. This converter must be installed in the APM housing and power for the bar code reader must be taken from the output of the converter.
- Each power converter can supply power to two bar code readers.

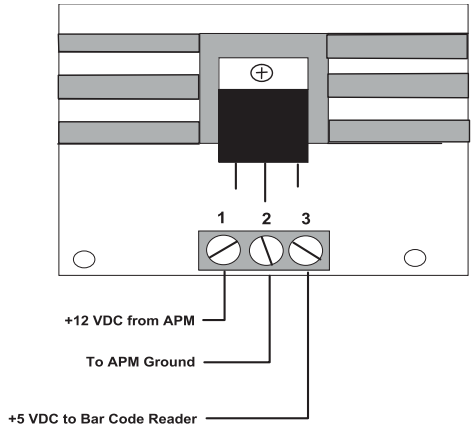
Tools and Supplies

- Screwdriver (small slotted)
- Wire Cutter
- Cable (wire)

Installing the power supply

1. Remove the power converter from it's packaging.
2. Insert one of the plastic standoffs into the hole at each corner of the circuit board.
3. Choose a smooth, clean and dry location inside the APM enclosure to mount the power converter (i.e. the side wall of the enclosure, next to the reader terminal strip).
4. Remove the backing from each of the standoffs and attach the converter to the APM enclosure, with the terminal strip at the bottom.
5. Connect terminal 1 of the power converter to the 12VDC output of the APM TB-D5 or TB-D13 (Figure 1 below).
6. Connect terminal 2 of the power converter to the ground on the APM TB-D6 or TB D14 (Figure 1 below).
7. Connect terminal 3 of the power converter to the 5 VDC input wire (red) of the bar code reader (Figure 1 below).

Figure 1: Power converter terminals



Wiring the Bar Code Reader to the APM

The bar code reader comes with a 5 foot cable attached. If a longer cable is needed between the reader and the APM, use an 18 gauge, 6 conductor cable with an overall shield, such as a Belden 83656 (a five conductor cable may be used if the LED and audio annunciators are **not both** used). This cable must be **no longer than 100 feet**.

Connect the cable to the APM's terminal strips as shown in Table 1 below.

Table 1: Cable connections

Wire color	Wire function	APM entry terminal	APM exit terminal
Red	+ 5 VDC	Terminal 3 of converter	Terminal 3 of converter
Black	Ground	TB - D6	TB - D14
Green	Data - 0	TB - D1	TB - D9
White	Data - 1	TB - D2	TB - D10
Brown	LED	TB - D8	TB - D16
Orange	Audio	TB -D8	TB - D16

Configuring the APM

The APM must be configured for Mag Stripe readers. Use Table 2 below to set the APM's Mag Stripe format.

Table 2: APM Mag stripe format

Data Format	Setting
Start char	B
Site code	None
Card number	02-17 (16 digits
Separator char	None
ID number	None
End char	F18

The command for a 1251 APM is as follows:

<Ctrl A> F nn-B,,02-17,,,F18<cr>

Refer to your APM documentation for more information about Mag Stripe formats.

Specifications

Compatibility	Interlogix Access Point Managers 451 or 1251
Operating temperature	-30° F (-30° C) to 150° F (60° C) 100% Relative Humidity
Dimensions	6 x 1.76 in. (H x W)
Weight	12 oz.
Power	5 VDC @ 100mA maximum

Regulatory information

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 1275 Red Fox Rd., Arden Hills, MN 55112-6943, USA

Contact information

For contact information, see www.utcfireandsecurity.com or www.interlogix.com.

For technical support, toll-free: 888.437.3287 in the US including Alaska, Hawaii, Puerto Rico, and Canada. Outside the tool-free area, contact your dealer.