INTRODUCTION

The AM-CRI card reader interface is designed for use with Linear's AE1000Plus, AE2000Plus, and AM3Plus access control systems. The interface will support one or two 26-bit Weigand input devices.

If the readers used have a "hold" or "buffer" connection, two readers may be used to the AM-CRI. If the readers do not have a "hold" or "buffer" connection, one reader may be used with the AM-CRI.

Usually mounted near the readers, the AM-CRI interface connects to the controller through a six-wire cable. Each reader connects to the AM-CRI through a six-wire (one LED in reader) or seven wire (two LEDs in reader) cable.

Two rotary switches in the AM-CRI select the PBUS device address for each reader connected. Each remote PBUS device connected to the controller must be set to a different device address. The address switches in the AM-CRI must be set to different addresses if two readers are used.

Power is supplied to the interface and reader(s) from the controller. A power selection jumper is provided for each reader. Five or eight volt power or external power for locally powered readers can be selected.

TYPICAL INSTALLATION

ONE OR TWO READERS AM-CRI INTERFACE (INSIDE WALL) CAN BE USED

CABLE TO CONTROLLER (SEE FORMULA)

HOMERUN WIRE EACH AM-CRI TO THE CONTROLLER

EACH AM-CRI EQUALS 25 LOAD UNITS

CABLE LENGTH FORMULA FOR EACH AM-CRI USED IN SYSTEM

<table>
<thead>
<tr>
<th>CABLE RUN</th>
<th>CABLE TYPE</th>
<th>FORMULA</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 FEET MAXIMUM</td>
<td>BELDEN 9931 (24 AWG)</td>
<td>FEET x LOAD UNITS &lt; 3,000 MAXIMUM</td>
</tr>
<tr>
<td>400 FEET MAXIMUM</td>
<td>WEICO 9405 (20 AWG)</td>
<td>FEET x LOAD UNITS &lt; 10,000 MAXIMUM</td>
</tr>
</tbody>
</table>

CABLE RUN CABLE TYPE FORMULA

120 FEET MAXIMUM BELDEN 9931 (24 AWG) FEET x LOAD UNITS < 3,000 MAXIMUM

400 FEET MAXIMUM WEICO 9405 (20 AWG) FEET x LOAD UNITS < 10,000 MAXIMUM

POWER & DATA TERMINALS (CONNECTS TO CONTROLLER)

READER ‘A’ POWER JUMPER

READER ‘B’ POWER JUMPER

READER ‘A’ DEVICE ADDRESS SELECTOR

READER ‘B’ DEVICE ADDRESS SELECTOR

READER ‘A’ TERMINALS

READER ‘B’ TERMINALS

MOUNT READER(S) PER MANUFACTURER’S SPECIFICATIONS

SQUEEZE SIDES TOGETHER

SEPARATE CASE

AM-CRI

Card Reader Interface

Installation Instructions
5. Connect Readers to AM-CRI

Refer to the controller programming instructions for details.

6. Set Device Address and Power Jumpers

Note: Refer to Step 3 illustration for component locations.

Set device address selector.

Refer to the controller programming instructions for details.

7. Connect AM-CRI to Controller

Refer to Reader manufacturer’s specifications for reader wire color and hook up details.

Use cable formula to determine cable type and maximum length.

Access control system bus terminals.

8. Close Case and Mount Unit

Use four screws to mount the AM-CRI.

Snap case together.

9. Program and Test

Program the controller to configure the PBUS device.

Linear Limited Warranty

This Linear product is warranted against defects in material and workmanship for twelve (12) months. This warranty extends only to wholesale customers who buy direct from Linear or through Linear’s normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer’s warranty, if any. There are no obligations or liabilities on the part of Linear LLC for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are valid only until This Linear LLC Warranty is in lieu of all other warranties express or implied.

All products returned for warranty service require a Return Product Authorization Number (RPA#). Contact Linear Technical Services at 1-800-421-1587 for an RPA# and other important details.

Copyright © 2012 Linear LLC