

## How To Interface the AFI 0500(SL) Current Loop Transceivers to AMAG M2100\_M2150 Equipment

### Overview:

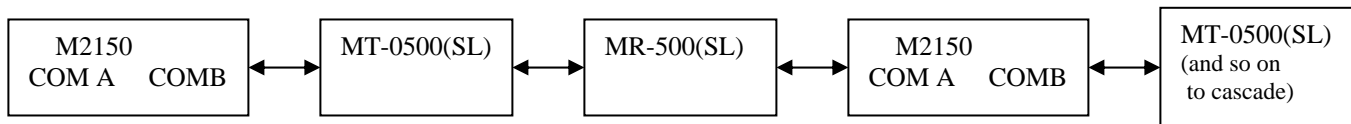
American Fibertek Model MT / MR 0500(SL)

Fiber Optic Bidirectional 20mA Current Loop Transceiver, Passive Input, Active Output

MT-0500(SL) (MT = Module Transmit)

MR-0500(SL) (MR = Module Receive)

The Series 0500(SL) units were tested with the Standard AMAG M2100 DBU and M2150 (X)DBC equipment and operate successfully without any field modifications required. The Series 0500(SL) units are used to provide a fiber interface between two AMAG M2100 DBU / 2150 (X)DBC database/controller units. Moreover, additional controllers may be cascaded together in large systems.



The Series 0500(SL) units are configured to be passive 20mA inputs and active 20mA outputs which are compatible for interfacing directly to the AMAG M2100/2150 access control equipment. The AMAG M2100/M2150 “COM A” and “COM B” ports are used to interface to the AFI Series 0500(SL) units. More details on the I/O cable connections are described below.

### Cable Connections:

From the first M2100/M2150 node in the chain connect your 20mA cable to the COM B terminal block to the AFI 5 pin terminal block of the fiber module.

| MT-0500(SL) | M2100/M2150 COM B Terminal block |
|-------------|----------------------------------|
| Data In +   | ----- TX +                       |
| Data In -   | ----- TX -                       |
| Data Out +  | ----- RX +                       |
| Data Out -  | ----- RX -                       |

From the next M2100/M2150 node in the chain connect your 20mA cable to the Host A terminal block to the AFI 5 pin terminal block of the fiber module.

| MR-0500(SL) | M2100/M2150 COM A Terminal block |
|-------------|----------------------------------|
| Data In +   | ----- TX +                       |
| Data In -   | ----- TX -                       |
| Data Out +  | ----- RX +                       |
| Data Out -  | ----- RX -                       |