



PLENA Voice Alarm System

Redundant Fiber interface connection V1.1



Lanex Fiber interface for Plena Voice Alarm System

1. Introduction

This application note describes a solution where Bosch Plena Voice Alarm System applications need to be equipped with fiber interface. Lanex, a company in Poland, has developed a fiber interface for the LBB1990 that enables fiber connectivity. Another advantage using this interface is the addition of a redundant connection between the controller, the routers, the remote (control) panels and the call stations.

At this moment, the unit is not distributed by Bosch. The unit should be bought directly from the manufacturer "Lanex" in Poland. The main goal of this application note is provide information concerning the fiber interface for the Plena Voice Alarm System. The unit has been functionally tested by Bosch, the results were favorable. However, Bosch will not accept any responsibility or liability concerning the correct behavior of this unit with the Voice Alarm System.

Using this unit also means that your system needs to be certified on site. The unit is not part of our current system certification. However we expect no problems and assume correct functioning of the system

PLENA

APPLICATION NOTE



BOSCH
Invented for life

2. General

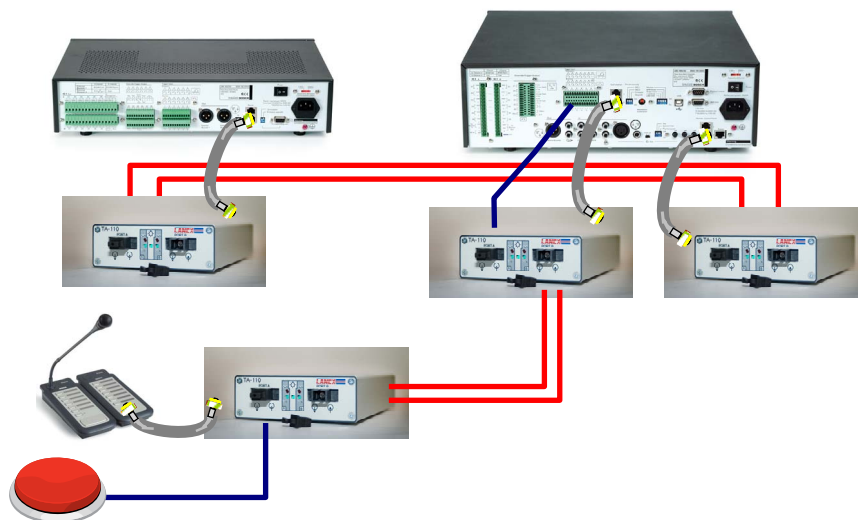
The Lanex fiber interface unit adds three major functions:

1. Fiber communication and connections
 - a. Elimination of electro magnetic interference and ground loop problems
 - b. Communication or connection loss is reported by output contacts
2. Redundant connections between the individual Plena Voice Alarm components
 - a. Router can be placed outside the controller rack
3. Adding remote (business) contacts *(no supervised EMG contacts are available yet)*
 - a. Remote Business Triggers can be added near a call station

3. Typical unit specifications

- Lanex TA-110.1 Plena Voice Alarm System fiber interface
- The maximum point to point length using the fiber units will be 900m.
- 2 Remote (business) contacts can be used
- The unit accepts 50/125 or 62,5/125 μm Multi- and 9/125 μm single-mode fiber connections using SC/PC connectors

4. Typical installation example



1x Controller, 1x router, 1x Call station,
2x set Fiber interface units, 1x panic button

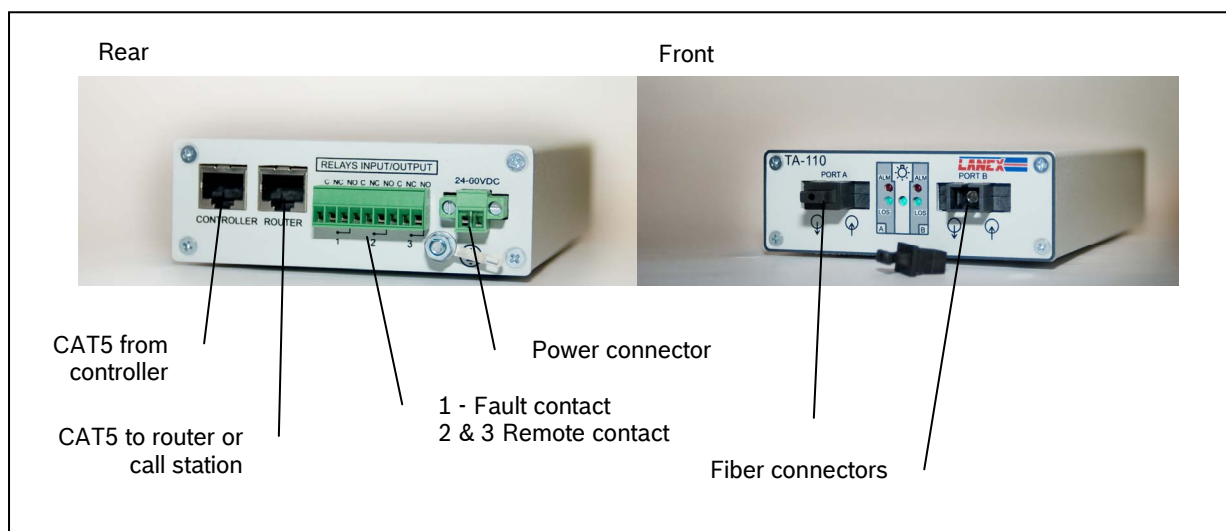
PLENA

APPLICATION NOTE



BOSCH
Invented for life

5. Fiber Unit connections



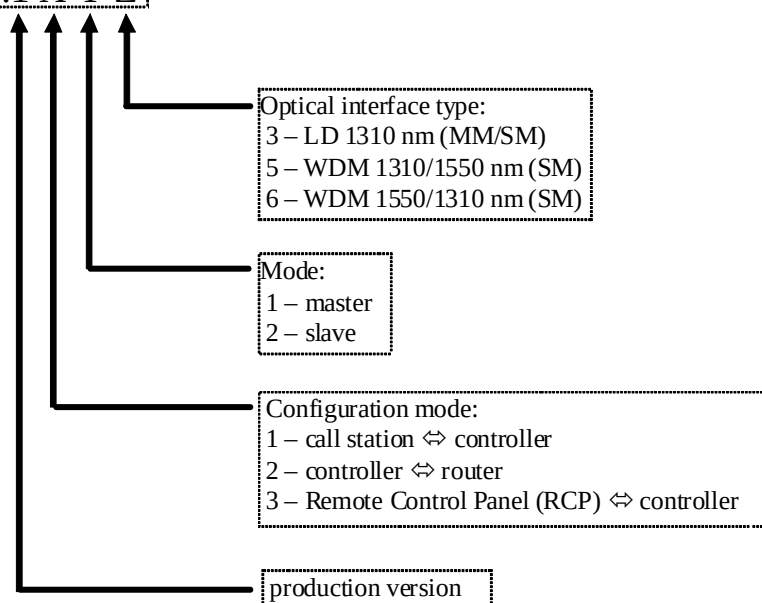
6. Unit Types

Lanex introduced different units.
These units are categorized as:

1. Controller <-> Call station
2. Controller <-> Router
3. Controller <-> RCP

Each type drives a separate type number. These numbers are:

TA-110.1-X-Y-Z





7. Configuration & Installation

The fiber unit does not require any additional configuration.
It is a Plug and Play installable unit.

8. Definitions, acronyms and abbreviations

AN	Application note
HW	Hardware
SW	Software
EMG	Emergency
RCP	Remote Control Panel

9. About

Application note:

Bosch Security Systems B.V.

Sales Support Organization PA
(Product) Application Specialist EMEA
Wilbert Maximus, B.Sc.
P.O. Box 90106
4800 RA Breda, The Netherlands
www.boschsecurity.com

Fiber units:

Lanex S.A.

ul. Ceramiczna 8
20-150 Lublin, Poland
tel.: +48 814 441 011
fax: +48 817 403 570
e-mail: info@lanex.pl
web: www.lanex.pl

Customer Technical Support Number:
tel. +48 0-81 443-96-39