SIEMENS

FCI1802-A1 BDS
Line Card for FC18 Controller
Product Manual

Overview

- FCI1802-A1 line card is specially designed for FC18 series controllers. It can be automatically identified by controller. It is used for connection with BC80 series field devices.
- FCI1802-A1 line card contains two lines and each line can connect 127 points.
- Compatible with BC80en, BC80-UL, FD180 series field deviecs.
- Compatible with BDS331 floor repeater display.
- 2-wire polarity-free of detection bus，stub wring is available and free branch is acceptable.

Technical data

Max. No. of line	2
Max. No. of field devices per line	127
Wire type for FD18-BUS	Recommend RVS1.0~RVS1.5
Line impedance	≤ 20 Ω
Short circuit auto protection（isolation）	available
Line operating voltage	+28 V
Quiescent current	650 mA / 24 V
Max. current	1.1 A / 24 V
Operating temperature	0 ~ +40 ℃
Storage temperature	-10 ~ +50 ℃
Humidity	≤95% (40±2 ℃)
Size	110*120 mm
RoHS standard	GB/T 26125-2011 GB/T 26572-2011

Installation

Preparation

FC18 controller operating properly.
Check the BDS line card accessories.

⚡ **Voltage!**
No power supply during installation.

Package list:
- BDS Line card——1
- Communication cable——1
- Power cable——1
- Terminal cable——1
- M3 screw——5
- User manual——1

Procedure with installation in the housing

1. Check the BDS line card accessories.
2. Mount the line card on the rear box of FC18 controller with M3 screws.
3. Connect the cables according to the connection diagram.

Connection Diagram
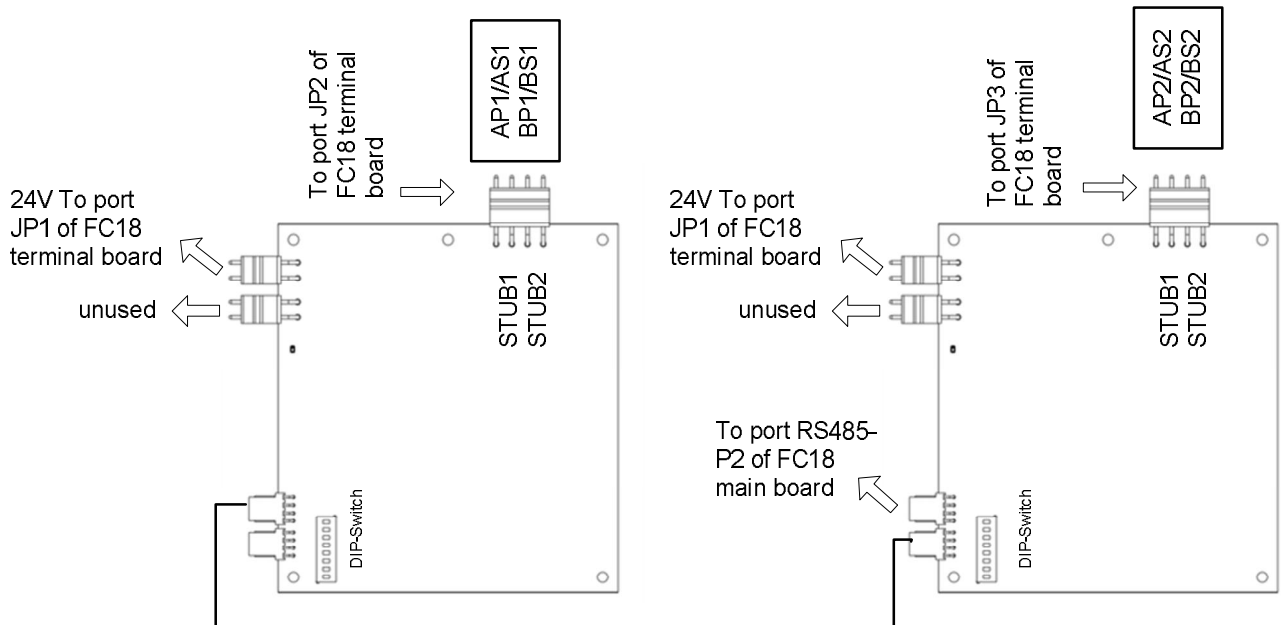
⚠️ **BDS Line card communication cable connected to main board "RS485-P2" port, but FD181 line card connected to main board "P2-1 orP2-2" port!**

Dip-switch

There is a 8-digit Dip-switch ID on BDS line card. The 1-4 digit of Dip-switch is available, used to set 6-7 address of line card. The 5-8 digit must be "Off".

Dip-switch	D1	D2	D3	D4
Null	Off	Off	Off	Off
6	Off	**On**	**On**	Off
7	**On**	**On**	**On**	Off

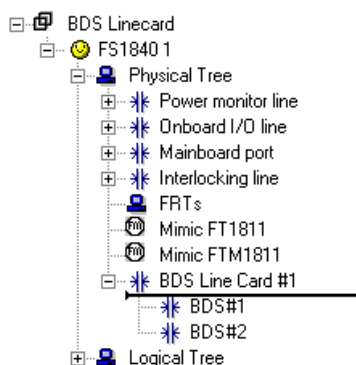# Configuration

1. HOW TO ADD A LINE
- Step 1: Choose the "Physical Tree " under the FC18 controller which you want to add a loop and right click on it. The operable items will be listed. Click on "Insert Node", the "Add a Line" window will pop out; or choose the "Physical Tree" under the controller which you want to add a loop and click on the icon "+" in the toolbar directly, the "Add a Line" window will pop out; or choose the "Physical Tree" under the controller which you want to add a loop and select "Add" in "Edit" menu, the "Add a Line" window will pop out.

- Step 2: Input data.
  - Address: Distributed by the system automatically (The setting of Dip-switch on BDS line card should be consistently with configuration)
 - Type: BDS Line Card
  - Customer Text: User define
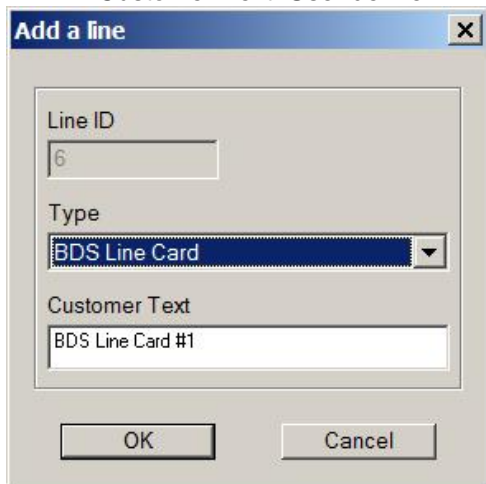
- Step 3: Click on "OK". The added loop will be displayed in the left window. The editable items can be edited through the "Property View" on the right. Click "Ok" after the change.

2. HOW TO ADD A FIELD DEVICE
- Each FCI1802-A1 line card contains two stub lines: STUB1, STUB2

- .The device address on STUB1: xx(controller ID).xx(Line ID 06-07). 1xxx(device ID 001-127)
- .The device address on STUB2: xx(controller ID).xx(Line ID 06-07). 2xxx(device ID 001-127)
- Step 1：Choose the stub which you want to add an field device and right click on it. The operable items will be listed. Click on "Insert BC80 points", choose the BC80 configuration file, the "Import BC80 point" window will pop out, then choose the line to import the BC80 device; or choose the line which you want to add an field device and click on the icon "+" in the toolbar directly, the "Add a field device" window will pop out; or choose the line which you want to add an field device and select "Add" in "Edit" menu, the "Add a field device" window will pop out.
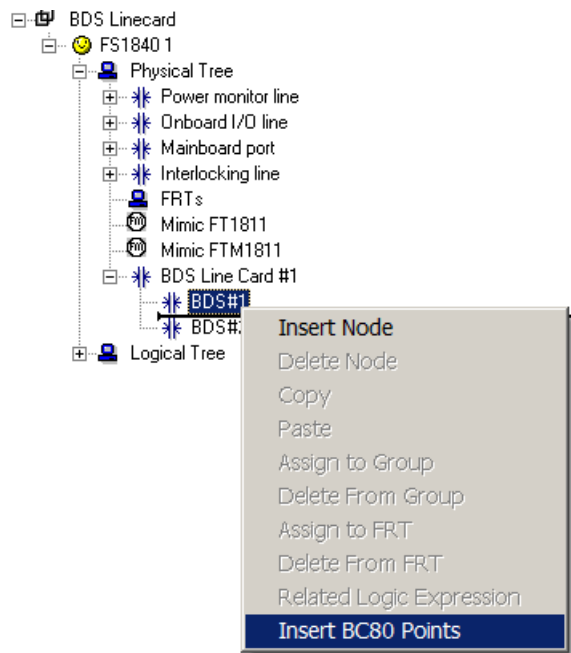
- Step 2: Input data.

All the device parameters will be inherited from BC80 configuration file, and can be edited through the "Property View" on the right.

Comments:

After import the BC80 devices, the interlocking expression should be redefined follow the FS18 interlocking rules.

Order Information

Type	Material No.	Part No.	Description	Weight
FCI1802-A1	S54420-A25-A1	101363342	BDS line card for FC18 controller	0.1 kg

SIEMENS

FCI1802-A1

FC18 控制器 BDS 回路卡

使用说明书

概述

- FCI1802-A1回路卡专为FC18系列控制器设计，具有控制器自动识别功能，用于连接BC80系列现场部件。
- FCI1802-A1回路卡包含2条回路，每条回路可以连接127个BC80现场设备。
- 支持BC80、BC80-GB、 FD180系列现场设备。
- 支持BDS331楼层显示器。
- FCI1802-A1回路卡采用两总线无极性的连接方式，现场总线支路布线，可任意分支。

性能参数

每块回路卡所带最大回路数	2
每条回路最多可接现场部件	127
现场总线推荐线型	推荐 RVS1.0~RVS1.5
回路阻抗	≤ 20 Ω
短路自动保护（隔离）	有
回路工作电压	+28 V
静态电流	650 mA / 24 V
最大电流	1.1 A / 24 V
工作温度	0 ~ +40 ℃
贮存温度	-10 ~ +50 ℃
相对湿度	≤95% (40±2 ℃)
回路卡尺寸	110*120 mm
符合标准 (RoHS)	GB/T 26125-2011 GB/T 26572-2011

安装

准备工作

确认 FC18 控制器工作正常。
确认 BDS 回路卡随机配件齐全。

⚡ **电压!**
控制器安装期间，不能通电。

回路卡随机配件包括：
- 回路卡——1
- 数据线——1
- 电源线——1
- 接口板连接线——1
- 固定螺钉——5
- 说明书——1

安装

1. 打开包装，确认随机安装附件齐全。
2. 使用随机附件螺钉（M3）将其固定在 FC18 控制器底面。
3. 按照接线图连接数据线、电源线及接口板连接线。

接线图
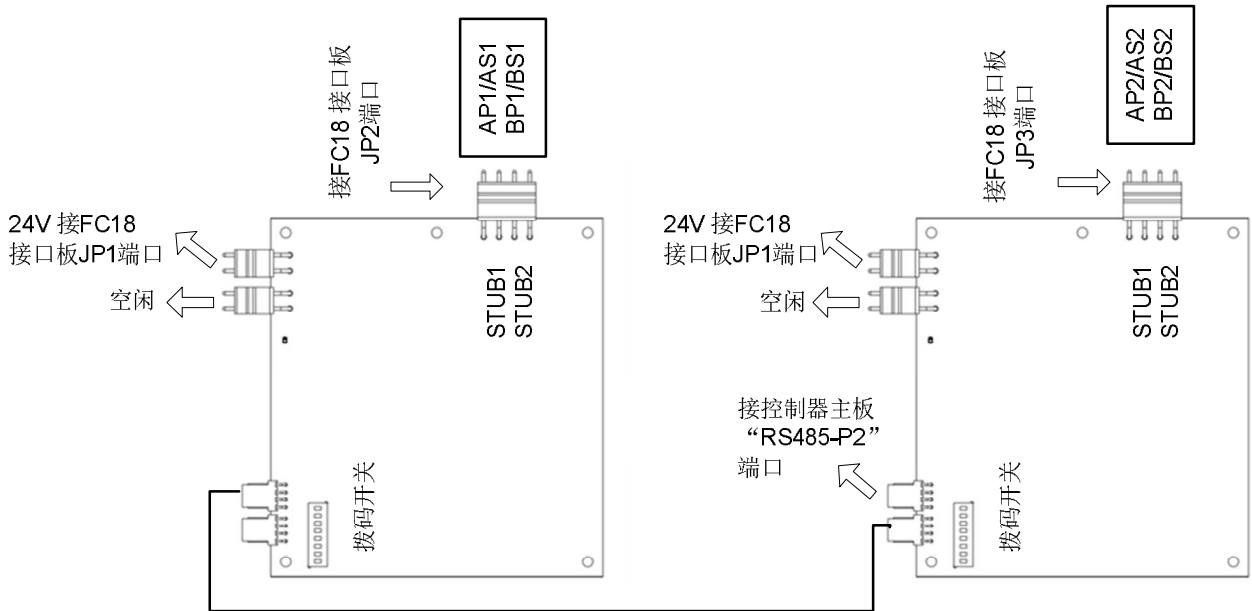
⚠ **BDS 回路卡数据线与主板连接端口为"RS485-P2"，FD181 回路卡与主板连接端口为"P2-1 或 P2-2"端口！**

拨码开关

8 位拨码开关，1-4 位用于设置回路卡地址（6-7），5-8 位为"OFF"。

地址	D1	D2	D3	D4
Null	Off	Off	Off	Off
6	Off	**On**	**On**	Off
7	**On**	**On**	**On**	Off

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配置

1. 如何在 FS18 配置文件中添加 BC80 回路。

- 第一步：选择需要添加回路的 **FC18** 控制器下面的"物理树"，点击鼠标右键，可操作项列表弹出，点击"添加节点"，添加回路窗口弹出；或选择需要添加回路的控制器下面的"物理树"，直接点击工具栏里的" **+** "图标，添加回路窗口弹出；或选择需要添加回路的控制器下面的"物理树"，选择"编辑"菜单的"添加"选项，添加回路窗口弹出。
- 第二步：输入数据。
  - 逻辑地址：由系统自动分配。BDS 回路卡拨码开关设置需与配置文件中回路地址一致。
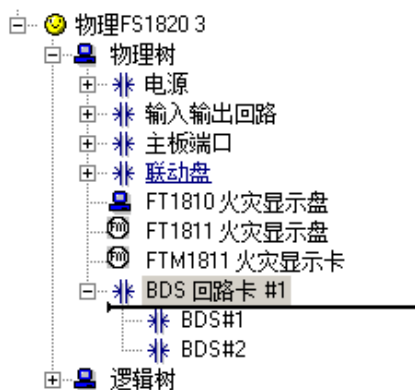 - 回路类型：BDS 回路卡
  - 名称：自定义

- 第三步：点击"确定"，所添加的回路即显示在左侧窗口。此时可通过右侧"节点视图"窗口对其可更改项进行更改。更改后，点击"确定"即可。

2. 如何从原 BC80 配置文件中导入 BC80 现场设备

- 每个 BDS 回路卡包含 2 条 BC80 子回路：STUB1,STUB2。

- STUB1 上所连接的 BC80 现场设备地址格式为：xx（控制器地址）.xx（回路地址 06-07）.1xxx(现场设备地址 001~127);
- STUB2 上所连接的 BC80 现场设备地址格式为：xx（控制器地址）.xx（回路地址 06-07）.2xxx(现场设备地址 001~127);

第一步：选择需要添加设备的子回路，点击鼠标右键，可操作项列表弹出，点击"导入 BC80 点"，选择需要打开的原 BC80 配置文件，回路列表窗口弹出；在列表中选择需要导入的回路，选择确认；或选择需要添加设备的回路，选择"编辑"菜单的"添加"选项，手动添加 BC80 现场设备。

第二步：输入数据。

原 BC80 配置文件中设备参数随导入操作导入到 FS18 配置文件中，也可手动在参数窗口中进行修改，各现场设备参数同原 BC80 系统。

备注：
导入 BC80 现场设备后，需在 FXS1800 中重新编写联动关系，编辑联动关系操作同 FS18 系统。

订货信息

型号	部件号	名称	重量
FCI1802-A1	101363342	FC18 控制器 BDS 回路卡	0.1kg

⚠ **每台 FC18 控制器中 BDS 回路卡与联动盘总数不能大于 13！**

⚠ **本回路卡仅适用于除中国大陆以外市场使用！**