

Installation Instruction

Model BDS121A

Manual Signaling Box



Figure 1
BDS121A

These instructions are written in accordance with the installation guidelines of NFPA 72, National Fire Alarm Code, The installation of Fire Alarm Systems.

Features

- I The manual signalling box serves for the manual actuation of alarms in case of fire.
- I It consists of a housing and a electronics part.
- I It is a glass broken signalling box.
- I Connect the manual signalling box to the "P" and "S" terminals of F-Bus of BC80 control panel, which is polarity free.
- I To be used in house.

Application

- I Apply to BC8001A Fire Alarm system with BDS A series detectors to produce alarm and interlocking.
- I Apply at public area, break glass when fire happens and control unit will release alarm and interlock other devices.
- I Use the DIP-switch on manual signalling box to set the address (1-127), which should be the same as that in project file (see attached table).

F Note: IN CASE OF FIRE BREAK GLASS!

Technical Specification

Items	Value
Operating Voltage	18~26VDC
Quiescent Current	≤0.5mA
Alarm Current	≤3mA

Installation

The manual signalling box placement should follow the drawings provided or approved by Siemens Building Technologies or by its authorized distributors. This is extremely important! The manual signalling box placements shown on these drawings were chosen after a careful evaluation of all facets of the protected area. When drawings are not available, refer to NFPA 72.

The installation steps are as follows:

Preparation:

1. Break out the key and open the cover (see figure 3). Keep the key in a safe place.
2. Determine the inlet opening(s) in the housing (see figure 4).
 - I Recessed mounting: Breakout point at housing bottom.
 - I Surface mounting: Marking on housing top and bottom for drill holes with max. \varnothing 20mm.

3. Clamp the housing in a bench vice.
4. Drill the inlet opening(s).

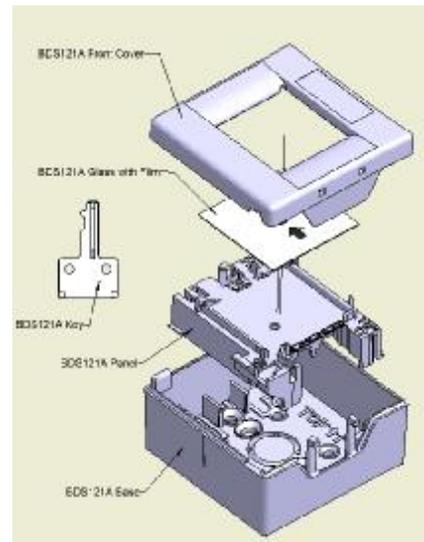


Figure 2 BDS121A disassemble diagram

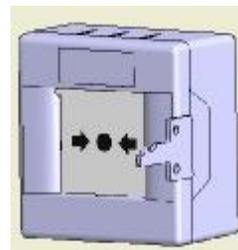


Figure 3 Key use

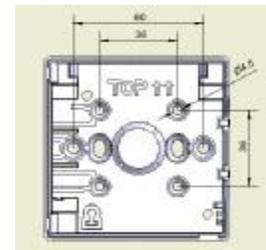


Figure 4
Mounting holes location

Installation:

1. Fix the housing at a height of 1.3 to 1.6m on an even surface.
2. Pull the cables through the inlet opening(s) and into the housing.
3. With surface mounting, use the screwed cable glands(max. M20*1.5)
4. Close the housing with the cover.

Wiring:

1. Open cover with key (see figure 3).
2. Connect the feed line to the terminals on the manual signalling box according to figure 5/6.
3. Consider the feed line when insert the electronics part.
4. Place the panel into the housing with the inscription "TOP" pointing upward(terminal at the right) until the locking device engages (see figure 7). When you want to take out the panel,

thumbs press the top locking device and pull it out.

5. Close the housing with the cover.

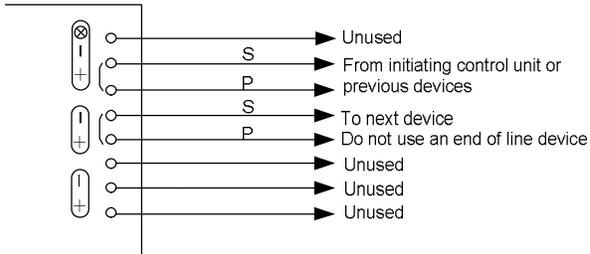


Figure 5 Terminal connection

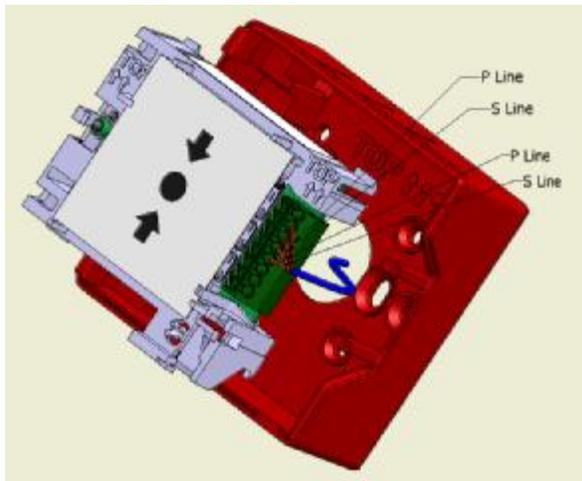


Figure 6 Wire Routing Diagram

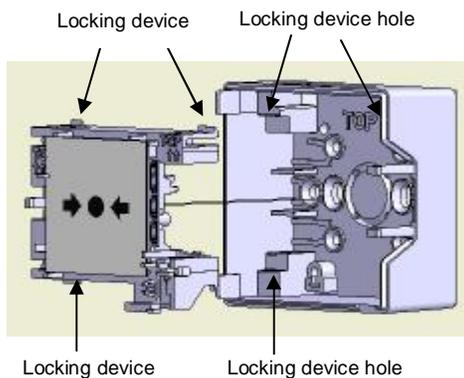


Figure 7 Panel Installation

F note:

- I The panel and the housing are delivered separately.
- I Do not install panel until all construction is completed.
- I It is recommended wiring with twisted-pairs from base to base. The wiring requirement is 18AWG to 15AWG.

Operation

- I When an alarm condition occurs, break glass of the manual call point. LED flash. After an alarm condition disappears, a piece of new glass should be installed in the manual signalling box.
- I When function test is done, insert key to test hole at the bottom. When function test is finished, pull key out and the manual signalling box will be reset automatically.

Storage

- I Do not store manual call point where it can be contaminated by dirt, dust or humidity. It should be stored with sealed packaging.

Order Information

Type	Description	Stock Code
BDS121A	Manual Signalling Box	A5Q00016798
FDMG291	MCP Glasses	A5Q00002122
BDS121A-01	Panel	A5Q00018656
BDS121A-02	Housing	A5Q00018661

Address	Dip-switch							
	1	2	3	4	5	6	7	8
0	Off	Off	Off	Off	Off	Off	Off	Off
1.	On	Off						
2.	Off	On	Off	Off	Off	Off	Off	Off
3.	On	On	Off	Off	Off	Off	Off	Off
4.	Off	Off	On	Off	Off	Off	Off	Off
5.	On	Off	On	Off	Off	Off	Off	Off
6.	Off	On	On	Off	Off	Off	Off	Off
7.	On	On	On	Off	Off	Off	Off	Off
8.	Off	Off	Off	On	Off	Off	Off	Off
9.	On	Off	Off	On	Off	Off	Off	Off
10.	Off	On	Off	On	Off	Off	Off	Off
11.	On	On	Off	On	Off	Off	Off	Off
12.	Off	Off	On	On	Off	Off	Off	Off
13.	On	Off	On	On	Off	Off	Off	Off
14.	Off	On	On	On	Off	Off	Off	Off
15.	On	On	On	On	Off	Off	Off	Off
16.	Off	Off	Off	Off	On	Off	Off	Off
17.	On	Off	Off	Off	On	Off	Off	Off
18.	Off	On	Off	Off	On	Off	Off	Off
19.	On	On	Off	Off	On	Off	Off	Off
20.	Off	Off	On	Off	On	Off	Off	Off
21.	On	Off	On	Off	On	Off	Off	Off
22.	Off	On	On	Off	On	Off	Off	Off
23.	On	On	On	Off	On	Off	Off	Off
24.	Off	Off	Off	On	On	Off	Off	Off
25.	On	Off	Off	On	On	Off	Off	Off
26.	Off	On	Off	On	On	Off	Off	Off
27.	On	On	Off	On	On	Off	Off	Off
28.	Off	Off	On	On	On	Off	Off	Off
29.	On	Off	On	On	On	Off	Off	Off
30.	Off	On	On	On	On	Off	Off	Off
31.	On	On	On	On	On	Off	Off	Off
32.	Off	Off	Off	Off	Off	On	Off	Off
33.	On	Off	Off	Off	Off	On	Off	Off
34.	Off	On	Off	Off	Off	On	Off	Off
35.	On	On	Off	Off	Off	On	Off	Off
36.	Off	Off	On	Off	Off	On	Off	Off
37.	On	Off	On	Off	Off	On	Off	Off
38.	Off	On	On	Off	Off	On	Off	Off
39.	On	On	On	Off	Off	On	Off	Off
40.	Off	Off	Off	On	Off	On	Off	Off
41.	On	Off	Off	On	Off	On	Off	Off
42.	Off	On	Off	On	Off	On	Off	Off
43.	On	On	Off	On	Off	On	Off	Off
44.	Off	Off	On	On	Off	On	Off	Off
45.	On	Off	On	On	Off	On	Off	Off
46.	Off	On	On	On	Off	On	Off	Off
47.	On	On	On	On	Off	On	Off	Off
48.	Off	Off	Off	Off	On	On	Off	Off
49.	On	Off	Off	Off	On	On	Off	Off
50.	Off	On	Off	Off	On	On	Off	Off
51.	On	On	Off	Off	On	On	Off	Off
52.	Off	Off	On	Off	On	On	Off	Off
53.	On	Off	On	Off	On	On	Off	Off
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59.	On	On	Off	On	On	On	Off	Off
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61.	On	Off	On	On	On	On	Off	Off
62.	Off	On	On	On	On	On	Off	Off
63.	On	On	On	On	On	On	Off	Off
64.	Off	Off	Off	Off	Off	Off	On	Off
65.	On	Off	Off	Off	Off	Off	On	Off
66.	Off	On	Off	Off	Off	Off	On	Off

Address	Dip-switch							
	1	2	3	4	5	6	7	8
67.	On	On	Off	Off	Off	Off	On	Off
68.	Off	Off	On	Off	Off	Off	On	Off
69.	On	Off	On	Off	Off	Off	On	Off
70.	Off	On	On	Off	Off	Off	On	Off
71.	On	On	On	Off	Off	Off	On	Off
72.	Off	Off	Off	On	Off	Off	On	Off
73.	On	Off	Off	On	Off	Off	On	Off
74.	Off	On	Off	On	Off	Off	On	Off
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120.	Off	Off	Off	On	On	On	On	Off
121.	On	Off	Off	On	On	On	On	Off
122.	Off	On	Off	On	On	On	On	Off
123.	On	On	Off	On	On	On	On	Off
124.	Off	Off	On	On	On	On	On	Off
125.	On	Off	On	On	On	On	On	Off
126.	Off	On	On	On	On	On	On	Off
127.	On	On	On	On	On	On	On	Off