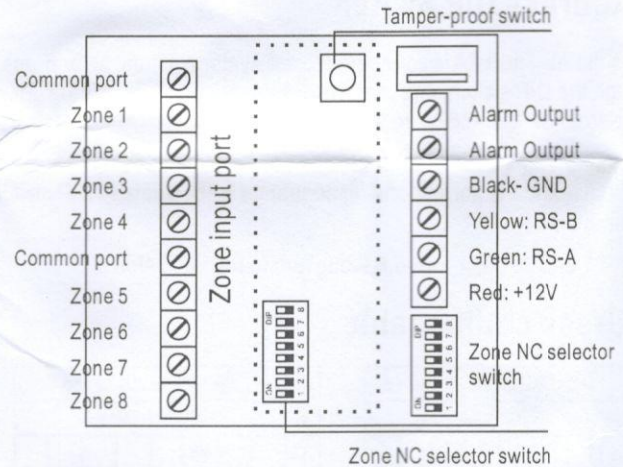


User Manual For 8-Zone Bus Expansion Module

AL-7480-8A 8 zone expansion module is a zone input equipment with bus communication function, and has a relay output. Connect with long-distance detection equipment through the bus; Use with the panel; With address coding setting switch.

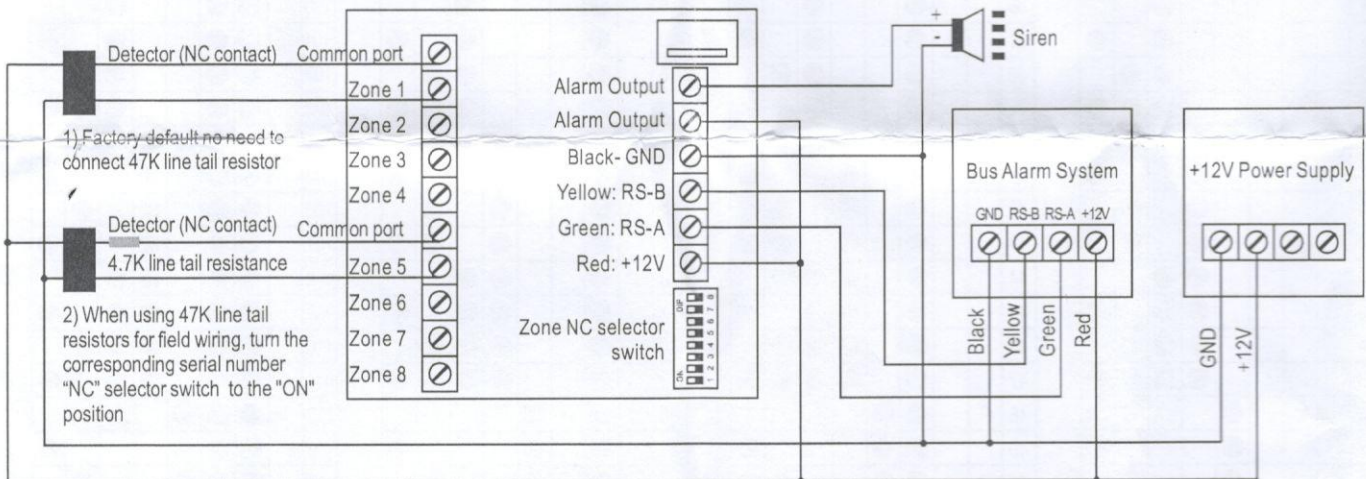
1. Specifications and Parameters

- Dimension: 8.6 x 8.6 x 4.0 cm
- Working environment: -10°C~50°C -85% Humidity
- Working voltage: DC 10 ~24 V
- Working current: 20 mA
- Alarm current: 80 mA
- Zone: Can be connected to 8 NC/NO detection equipment
- Networking function: can be used in conjunction with bus alarm system
- Output: 1 relay output, 24V/1A



Note: The content in the dashed box is on the reverse side of the circuit board

2. Installation Notes



3) DC power interface: Red wire -- Positive, Black wire -- Negative;

4) Relay output contacts can be used to control alarm output equipment such as siren and lights

5) RS485 bus interface: Green -- Communication bus A, Yellow -- Communication bus B (note: these two wires cannot be connected in reverse)

6) Zone input interface: zone N (1-8) connected with the output contact of common port and detector.

(1) The factory default is that the tail resistance has been internally connected, and there is no need to connect the tail resistance in series when wiring on-site. You can directly connect the NC detector.

Note: If the detector is not connected to a zone, be sure to plug in the zone with the common port.

(2) If the user is required to connect the line tail resistance at the output contact of the detector at the site, you can set the corresponding switch of the "NC selector switch" of the zone to the "ON" position. The NO detector is connected in parallel with line tail resistance, and the NC detector is connected in series with line tail resistance.

7) The address of AL-7480-8A or RS485 terminal equipment under the same system (for example AL-7480 system) cannot be repeated.

3. Indicator Light Description

1) Power status indicator description: When the input power voltage is higher than the minimum operating voltage, the power status indicator is always on; once the input power voltage is lower than the normal operating voltage, the power status indicator flashes quickly for

at least 5 seconds, if it has not recovered, the power status indicator will keep flashing.

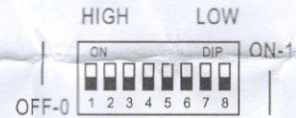
2) Communication status indicator description :

- (1) Constant light: the module communicates normally;
- (2) Fast flashing (flashing 4 times per second): The module does not receive any communication data within 1 second;
- (3) Slow flashing (flashing once per second): The module has received data, but no correct data has been received within 5 seconds.

4. Address DIP Switch

When the AL-7480-8A is connected to the system, it must be address encoded. The encoding is set through the DIP switch, and the address encoding adopts binary encoding. The DIP switch is arranged in the order of "12345678" to set the binary address.

For example: the code of a certain zone expansion module is 13; the corresponding binary number is: 00001101, and the corresponding sequence in the address DIP switch is 1-8 (that is, the high bit is 1, the low bit is 8)



1,2,3,4,7 bits do not move, 5,6,8 bits turn to the "ON" side

Address coding table

add	● : DIP switch closed (ON)							
	Switch status							
0								
1								●
2							●	
3							●	●
4						●		
5						●		●
6						●	●	
7						●	●	●
8					●			
9					●			●
10					●		●	
11					●		●	●
12					●	●		
13					●	●		●
14					●	●	●	
15					●	●	●	●
16					●			
17					●			●
18					●		●	
19					●		●	●
20					●	●		
21					●	●		●
22					●	●	●	
23					●	●	●	●
24					●	●		
25					●	●		●
26					●	●		●
27					●	●		●
28					●	●	●	
29					●	●	●	●
30					●	●	●	
31					●	●	●	●
32					●			
33					●			●
34					●		●	
35					●		●	●
36					●		●	
37					●		●	●
38					●		●	●
39					●		●	●
40					●	●		
41					●	●		●
42					●	●		●
43					●	●	●	●
44					●	●	●	
45					●	●	●	●
46					●	●	●	●
47					●	●	●	●
48					●	●		
49					●	●		●
50					●	●		●
51					●	●		●
52					●	●	●	
53					●	●	●	●
54					●	●	●	●
55					●	●	●	●
56					●	●	●	
57					●	●	●	●
58					●	●	●	●
59					●	●	●	●
60					●	●	●	
61					●	●	●	●
62					●	●	●	●
63					●	●	●	●
64					●			
65					●			●
66					●		●	
67					●		●	●
68					●		●	
69					●		●	●
70					●		●	●
71					●		●	●
72					●	●		
73					●	●		●
74					●	●		●
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77					●	●	●	●
78					●	●	●	●
79					●	●	●	●
80					●	●		
81					●	●		●
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85					●	●	●	●
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87					●	●	●	●
88					●	●	●	
89					●	●	●	●
90					●	●	●	●
91					●	●	●	●
92					●	●	●	
93					●	●	●	●
94					●	●	●	●
95					●	●	●	●
96					●	●		
97					●	●		●
98					●	●		●
99					●	●		●
100					●	●	●	
101					●	●	●	●
102					●	●	●	●
103					●	●	●	●
104					●	●	●	
105					●	●	●	●
106					●	●	●	●
107					●	●	●	●
108					●	●	●	●
109					●	●	●	●
110					●	●	●	●
111					●	●	●	●
112					●	●	●	
113					●	●	●	●
114					●	●	●	●
115					●	●	●	●
116					●	●	●	●
117					●	●	●	●
118					●	●	●	●
119					●	●	●	●
120					●	●	●	●
121					●	●	●	●
122					●	●	●	●
123					●	●	●	●
124					●	●	●	●
125					●	●	●	●
126					●	●	●	●
127					●	●	●	●

Note: 1. The large-scale bus system alarm panel can connect up to 127 bus equipment through the communication interface. The range of the address DIP switch is 0 to 126.

2. On the DIP switch, the "ON" side represents 1, corresponding to the "●" in the table, and the "OFF" side represents 0.

Note: Please follow this installation guide to install it and disconnect the system power before connecting.