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Specifications

 Part numbers
 7254-FBD-5806, 7254-FBD-5830 and 7254-FBD-5831

 Compatibility Identifier
 7254-FBD-5806, 7254-FBD-5830 and 7254-FBD-5831

Type 7254-FBD-5831 (switch monitor)

7254-FBD-5806 and 7254-FBD-5830 (priority switch monitor)

Style Fascia plate with wiring terminals Dimensions 4½" x 4½" x 1" (7254-FBD-5806)

3" x 2" x ½" (7254-FBD-5830 and 7254-FBD-5831)

 Temperature range
 32°F to 120°F (0° C to 49°C)

 Humidity
 10 to 93% RH Non-condensing

 Wiring size
 24AWG - 14AWG (7254-FBD-5806)

Signal line circuit (SLC) Supervised power limited

Working Voltage 17-28VDC

Modulation voltage 5-9V (peak to peak)
Operating current Supervisory current 1mA

Surge current 2.5mA

Maximum alarm current 5.0mA (LED on)
Functional states Analog level (Normal) 16

Analog level (Normal) 16 Analog level (Alarm) 64 Analog level (Trouble) 4

Initiating device circuit (IDC)

Wiring styles Supervised power limited Class A and Class B

Voltage 10VDC
Current 1.7mA Max
Line impedance 100Ω Max

End-of-Line Resistors 47KΩ (A UL listed end-of-line resistor is available from FireBus and

can be ordered under part number 2110-FBD-0901).

Functional Test Data

Output Bit	Function	Input Bit	Function
2	Alarm LED 1 = On 0 = Off	2	Alarm LED Confirmation 1 = On 0 = Off
1	Remote Test 1 = On 0 = Off	1	Indicates Class Wiring 1 = Class B* 0 = Class A
0	Not used	0	Alarm Status 1 = Alarm 0 = Normal

^{*} Note: Toggles to '0' in alarm.

B-AP Series®

FB-AP Series Switch Monitor Modules Installation Instructions

General

This guide describes the installation of the following products:

Part Number Product Name

7254-FBD-5806 FB-AP Series Priority Switch Monitor Module
7254-FBD-5830 FB-AP Series Mini Priority Switch Monitor Module
7254-FBD-5831 FB-AP Series Mini Switch Monitor Module

FB-AP Series Switch Monitor Modules are loop-powered devices that incorporate a monitored input circuit for connection to remote switches. The 7254-FBD-5806 module is fascia plate mounted and designed to fit on a 4" square or 2 gang electrical box (minimum depth 21/8"). Mini modules, 7254-FBD-5830 and 7254-FBD-5831 are housed in a small plastic enclosure for installation inside an electrical box. Six flying leads are used to connect the module.

The priority switch monitors, 7254-FBD-5806 and 7254-FBD-5830, incorporate an additional 'Priority Interrupt' to give a fast response from devices such as pull stations. Note: the FB-AP Series modules are designed for indoor use only.

Control Panel Compatibility

The modules have been listed by Underwriters Laboratories Inc. For details of compatible panels, please contact FireBus. Please check fire control panel literature for compatible FireBus devices.

Installation

These products must be installed in accordance with the applicable NFPA standards, local codes and jurisdictional authorities. Failure to follow these instructions may result in failure of devices to report an alarm condition. FireBus is not responsible for devices which are improperly installed, maintained and tested.

Before installing these products, check the continuity, polarity and insulation resistance of all wiring. Check that siting is in accordance with the fire system drawings and conforms to all applicable local codes such as NFPA 72.

Installation: 7254-FBD-5806

- 1. Mount the electrical box as required and install all cables for termination. Ensure that cable shield/earth continuity is maintained.
- 2. Drill holes in the fascia plate corresponding to the holes on the mounting box selected (Fig 3).

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- 3. Terminate all cables in compliance with local codes and regulations.
- 4. Set the address of the module as shown on page 3.
- 5. Gently push the completed assembly towards the mounting box and align the fixing holes. Secure the unit with the screws provided. **Do not overtighten the screws.**
- 6. Commission the module.

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Installation: 7254-FBD-5830 and 7254-FBD-5831

- 1. Secure the mini module inside a suitable electrical box or the equipment to be monitored.
- 2. Terminate all cables in compliance with local codes and regulations.
- 3. Set the address of the module as shown on page 3.
- 4. Finalize the installation according to the application.
- 5. Commission the module.

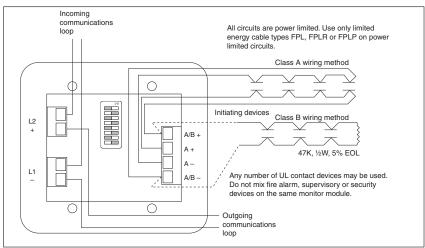


Fig 1. Wiring Diagram for FB-AP Series Priority Switch Monitor Module

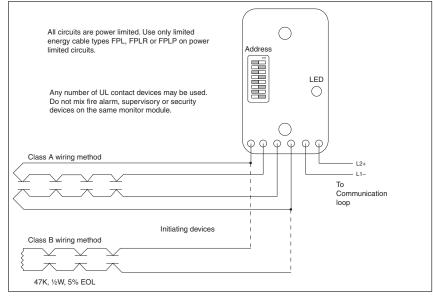


Fig 2. Wiring Diagram for Mini Switch Monitor and Mini Priority Switch Monitor Modules

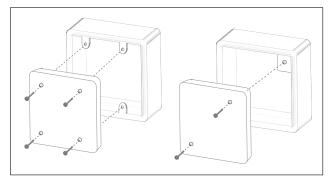


Fig 3. Mounting the FB-AP Series Switch Monitors (7254-FBD-5830)

Address Setting

Segments 1-7 of the DIL switch are used to select the address of the module. Each of the seven segments must be set to '0' (ON) or '1' (OFF) using a small screwdriver or similar tool. A complete list of address settings is shown below. (The eighth segment of the switch is used to select Class A or B wiring.)

	DIL switch									
addr	setting 1234567									
	1234307		1234507		1234507		1234307		1234307	
1	1000000	11	1101000	21	1010100	31	1111100	41	1001010	
2	0100000	12	0011000	22	0110100	32	0000010	42	0101010	
3	1100000	13	1011000	23	1110100	33	1000010	43	1101010	
4	0010000	14	0111000	24	0001100	34	0100010	44	0011010	
5	1010000	15	1111000	25	1001100	35	1100010	45	1011010	
6	0110000	16	0000100	26	0101100	36	0010010	46	0111010	
7	1110000	17	1000100	27	1101100	37	1010010	47	1111010	
8	0001000	18	0100100	28	0011100	38	0110010	48	0000110	
9	1001000	19	1100100	29	1011100	39	1110010	49	1000110	
10	0101000	20	0010100	30	0111100	40	0001010	50	0100110	
51	1100110	61	1011110	71	1110001	81	1000101	91	1101101	
52	0010110	62	0111110	72	0001001	82	0100101	92	0011101	
53	1010110	63	1111110	73	1001001	83	1100101	93	1011101	
54	0110110	64	0000001	74	0101001	84	0010101	94	0111101	
55	1110110	65	1000001	75	1101001	85	1010101	95	1111101	
56	0001110	66	0100001	76	0011001	86	0110101	96	0000011	
57	1001110	67	1100001	77	1011001	87	1110101	97	1000011	
58	0101110	68	0010001	78	0111001	88	0001101	98	0100011	
59	1101110	69	1010001	79	1111001	89	1001101	99	1100011	
60	0011110	70	0110001	80	0000101	90	0101101	100	0010011	
101	1010011	111	1111011	121	1001111		WIRING CLASS			
102	0110011	112	0000111	122	0101111	ГО			A	

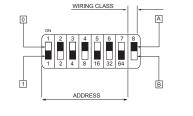


Fig 4. DIL Switch