

**Specifications**

<b>Part number</b>	7254-FBD-4321
<b>Compatibility identifier</b>	7254-FBD-4321
<b>Type</b>	20D Isolating Base
<b>Style</b>	Base
<b>Base materials</b>	White polycarbonate, V-0 to UL94
<b>Dimensions</b>	4" x 1"
<b>Temperature range</b>	32°F to 100°F (0°C to 38°C)
<b>Humidity</b>	10 to 93% RH Non-condensing
<b>Wiring size</b>	24AWG - 14AWG
<b>Signal line circuit (SLC)</b>	Supervised
Working voltage	17-28VDC (maximum DC voltage range)
	Modulation voltage 5-9V (peak to peak)
Operating current	Supervisory current 50µA
	Surge current 0mA
	Maximum current drawn 8.5mA

Must be connected to power limited circuit with a maximum loop current of continuous 1A and short circuit switching 3A.

# FB-AP Series®

## FB-AP Series 20D Short-Circuit Isolating Base Installation Instructions

### General

FB-AP Series 20D Short-Circuit Isolating Bases are designed to sense and isolate short circuits on FB-AP Series loops and can be used in place of standard FB-AP Series bases.

### Control Panel Compatibility

The Isolating Base has been listed by Underwriters Laboratories Inc. For details of compatible control panels contact FireBus. Please check fire control panel literature for compatible FireBus devices.

### Installation

The base 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 the detectors to report an alarm condition. FireBus is not responsible for detectors which are improperly installed, maintained and tested.

Before installing the base 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.

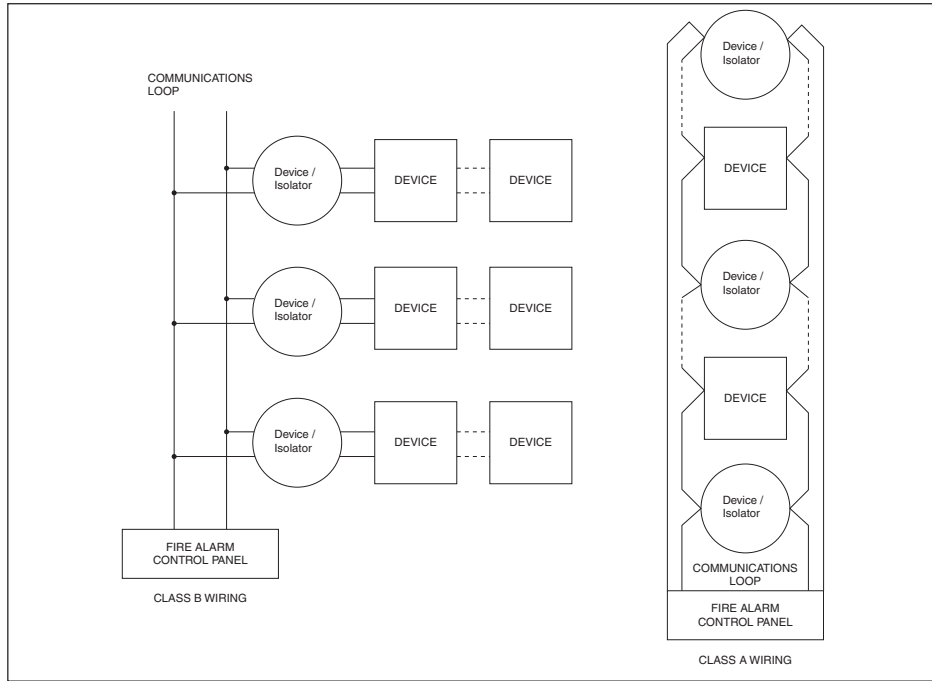
Use 3" octagonal box for direct connection to the base. 4" octagonal and 4" square boxes may be used with proper UL listed mounting brackets. When mounting on a wall, install 4" to 12" from the ceiling. Use 3M Weatherban 606 Non-Flammable sealing compound (or equivalent) to seal field wiring conduit opening in the electrical box, this will reduce the stack effect. Secure the base to the electrical box with appropriate screws. **Do not over-tighten the screws.** The raised mark on the side of the base indicates the direction of the detector LED when fitted. Connect the shield, if required, to the SHIELD/EARTH terminal on the base. For information on how to set the address of each device correctly refer to the section 'Address Setting' overleaf.

### Commissioning

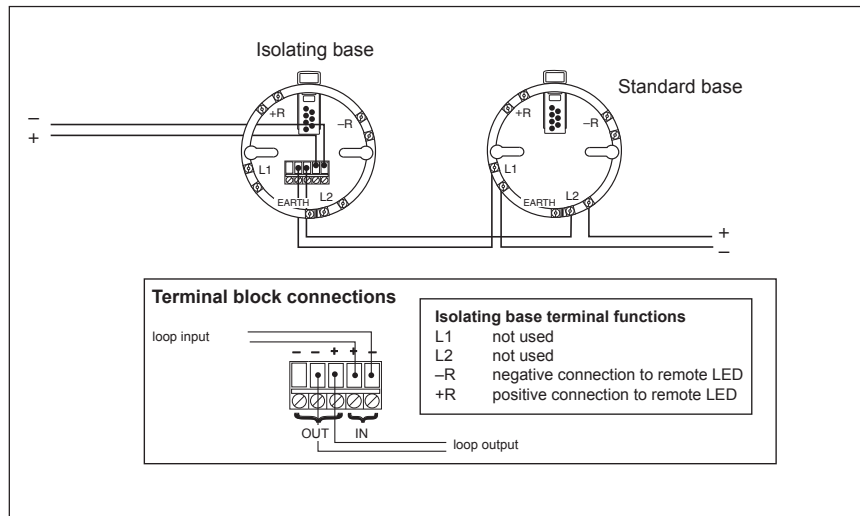
It is important that the system be fully tested after installation. In normal operating conditions, apply short-circuits to the supply wiring at various points to confirm the isolators are functioning correctly. Ensure that any applicable local codes are adhered to.

### LED Indicators

Yellow illuminated if a short-circuit is detected either side of the isolator.



**Fig 1** Class wiring diagram



**Fig 2** FB-AP Series 20D Isolating Base wiring diagram

**Address Setting**

Refer to the table below for the complete list of address settings. Select the desired address and remove the pips indicated in black. Remove pips with a small screwdriver.

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	75
76	77	78	79	80	81	82	83	84	85	86	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									