



Features

- Two form C relays as part of the base assembly
- Works independent of the sensors attached
- May be mapped to any device connected to the Control Panel
- LED to indicate that the unit is active
- Separation included in the base for high and low voltage and power limited/non-power limited connections
- Maximum standby current, 325 μ A
- Maximum alarm current, 50 mA (aux power)

Description

The Addressable Relay Base 6" (ARB) is combination sensor base with a relay module included. The base has a locking feature for the sensor that may be used or removed in the field. Once the head is removed, the relay is accessible in the bottom of the unit.

The relay module is a uniquely addressed module that provides two form C contacts. The first relay is rated at 8 amps at 30 VDC or 240VAC. The second relay is rated at 2 amps at 30 VDC or 240 VAC. The ARB has a divider providing means for separation of high voltage and non-power limited connections from the power limited, regulated Signaling Line Circuit (SLC).

The ARB is designed that once activated, both relays change position. The activation of the unit is identified by a LED on the unit latching red. The unit is reset when the panel is reset. The panel will support any combination of sensors or modules on the SLC. The ARB occupies one address on the loop.

Detector Base Mounting

ARB should be mounted directly on the electrical box. The mounting holes are configured for a single gang, double gang, octagon or 4" square box.

Setting the Address

Each addressable module, smoke sensor, heat detector and combination sensor/detector must have the address set before connecting the device to the SLC loop. The address is set using the hand held device programmer or the addressing feature on the control panel.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Document discrepancies and notify appropriate personnel.

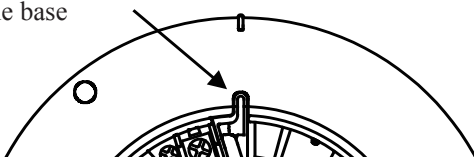
Locking Feature

ARB include a locking feature that prevents removal of the detector and removal of the base cover without using a tool.

1. To eliminate this feature, break off the locking tab (refer to Figure 1), and then install the detector.

Figure 1. Eliminate the Locking Feature

Break the plastic tab by twisting it toward a center of the base



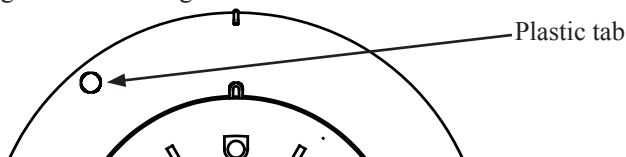
2. To remove the detector from the base once the locking feature has been activated, insert a small screwdriver into the slot on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise (refer to Figure 2).

Figure 2. Removing of detector head from base



3. To remove the base cover from the lower enclosure once the locking feature has been activated, insert a small screwdriver into the slot on the on the base to push the plastic tab while simultaneously turning the detector head counter-clockwise (refer to Figure 3).

Figure 3. Removing of base cover from the lower enclosure



Specifications

No.	Item		ARB
1	Working voltage range for SLC		22.0 to 24.0 V
2	Standby current for SLC ¹		325 μ A
3	Working voltage range for 24V (device requires Aux Power)		19.0 to 28.0 V
4	Active current for 24V (Include indicator)		50 mA D.C.
5	Active indicator		1 LED
6	Contact output style		2 form C (N.C / COM / N.O)
7	Contact rating		NO1/C1/NC1...8A / 240VAC, 8A / 30VDC NO2/C2/NC2...2A / 240VAC, 2A / 30VDC
8	Installation temperature range		32°F to 120°F (0°C to 49°C)
9	Operating relative humidity range		0% to 93% (Non-condensing)
11	Maximum number of addresses per zone		127
12	Maximum number of lighted indicators in alarm per zone.		Unlimited
13	Color		Eggshell White
14	Dimensions (without detector)	Height	2.13 inches (54.4mm)
		Diameter	6 inches (150mm)

(1) The standby current is the current that the device consumes when the device is in a non-activated condition and where no communication current is transmitted to the fire alarm control panel.

(2) FHA with ARB should be installed under 120°F. (Installation temperature range of ARB is 32°F to 120°F.)

NOTICE

All specifications are subject to change without notice. For further information, contact Potter Electric Signal Company Technical Support.