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EB and EBF Plug-in Detector Bases

SPECIFICATIONS

Diameter: 6.1 inches (155 mm); EBF 4.0 inches (102 mm); EB

Wire Gauge: 12 to 18 AWG (0.9 to 3.25 mm²)

BEFORE INSTALLING

Please thoroughly read the system wiring and installation manuals and the *System Smoke Detector Application Guide*, which provides detailed information on detector spacing, placement, zoning, and special applications.

NOTICE: This manual should be left with the owner/user of this equipment.

MOUNTING

Detector base, Model EBF (Figure 1A), mounts directly to $3^1/2$ - inch and 4-inch octagon boxes, 4 inch square boxes (with or without plaster rings) and single gang boxes. To mount, remove the decorative ring by turning it in either direction to unhook the snaps, then separate the ring from the base. Install the base on the box using the screws supplied with the junction box and the appropriate mounting slots in the base. Place the decorative ring on the base and rotate it in either direction until it snaps into place.

Detector base, Model EB (Figure 1B), mounts to 3¹/₂-inch octagon boxes, 4-inch square boxes with plaster rings, and European boxes with 50, 60, and 70 mm screw spacing. Install the base on the box using the screws supplied with the junction box and the appropriate mounting slots in the base.

FIGURE 1A: EBF 6 INCH MOUNTING BASE

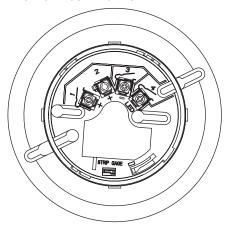
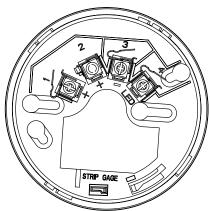


FIGURE 1B: EB 4 INCH MOUNTING BASE



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C0941-00

WIRING

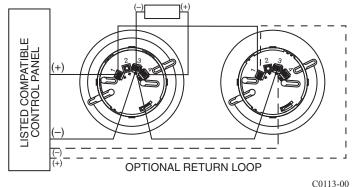
All wiring must be installed in compliance with all applicable local codes and any special requirements of the authority having jurisdiction, using the proper wire size

The conductors used to connect smoke detectors to control panels and accessory devices should be color-coded to reduce the likelihood of wiring errors. Improper connections can prevent a system from responding properly in the event of a fire. For signal wiring (the wiring between interconnected detectors), it is recommended that the wire be no smaller than AWG 18. However, the screws and clamping plate in the base can accommodate wire sizes up to AWG 12. If shielded cable is used, the shield connection to and from the detector must be continuous by using wire nuts, crimping, or soldering, as appropriate, for a reliable connection.

See Figure 2 for proper base wiring. Make electrical connections by stripping about $^{3}/8$ of an inch (10 mm) of insulation from the end of the wire (use strip gauge molded in base), sliding the bare end of the wire under the clamping plate, and tightening the clamping plate screw. Do not loop the wire under the clamping plate. The wiring of the detector base should be checked before the detector heads are installed in them. The wiring should be checked for continuity and polarity in the base, and dielectric tests should be performed. The base includes a space for recording the zone, address, and type of detector being installed. This information is important to set the address of the detector head that will later be plugged into the base and to verify the type required for that location.

FIGURE 2: WIRING THE BASES:

OPTIONAL REMOTE ANNUNCIATOR



TERMINAL DEFINITIONS

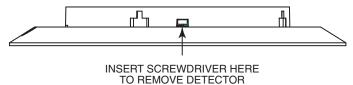
TERMINAL DEFINITIONS					
	T1	(+) SLC in/out	Т3	(-) SLC in/out	
			T4	LED	

I56-3795-002R

TAMPERPROOF FEATURE

This detector base also includes an optional tamperproof feature that, when activated, prevents removal of the detector without the use of a tool. To activate this feature, simply break off the tab on the lever on the detector base shown in Figure 3A, and install the detector. To remove the detector from the base once the tamperproof feature has been activated, place a small-bladed screwdriver into the small hole on the side of the base and push the plastic lever (see Figure 3B). This will allow the detector to be rotated counterclockwise for removal. The tamperproof feature may be defeated by breaking and removing the plastic lever from the base; however, this prevents the feature from being used again.

FIGURE 3A:

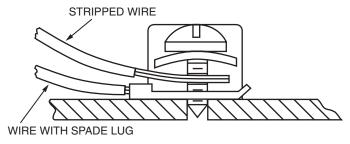


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REMOTE ANNUNCIATOR (RA100Z)

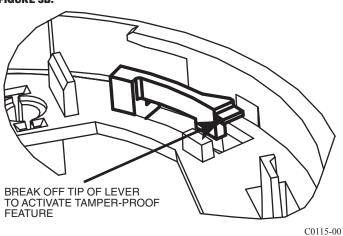
The remote annunciator is connected between terminals 3 and 4 using the spade lug terminal packed with the remote annunciator. The spade lug terminal is connected to the base terminal as shown in Figure 4. It is not acceptable to have three stripped wires under the same wiring terminal unless they are separated by a washer or equivalent means. The spade lug supplied with the model RA100Z is considered acceptable. See Figure 2 for proper installation.

FIGURE 4:



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FIGURE 3B:



Please refer to insert for the Limitations of Fire Alarm Systems