



# DRA Remote Annunciators

DRA-5 and DRA-12/24



**BOSCH**



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# 1 Introduction

The DRA Annunciator is designed to provide remote annunciation of alarms for a number of Bosch Security Systems' fire alarm detectors. It is designed to be mounted to a single gang box, but it can also be surface mounted.

## 2 Connection



### Warning!

Failure to follow the connection instructions in this manual can result in damage to the annunciator.

### Two-wire conventional bases

The D287 or D288 base used for two-wire conventional detectors requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal 3 and the negative lead (WHITE) to terminal 4.

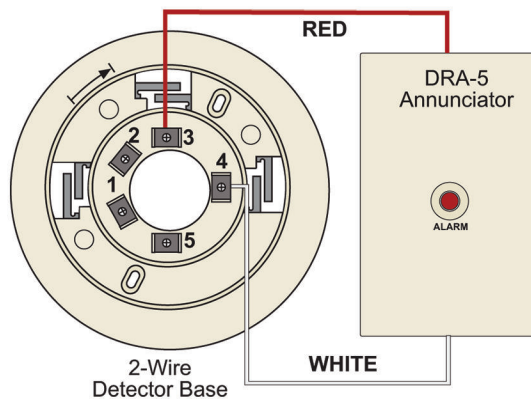


Figure 2.1: Wiring a DRA Annunciator to a conventional 2-wire base

### Four-wire bases

The D292, D293A, D293E, or D293S base used for two-wire conventional detectors requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal 3 and the negative lead (WHITE) to terminal 4.

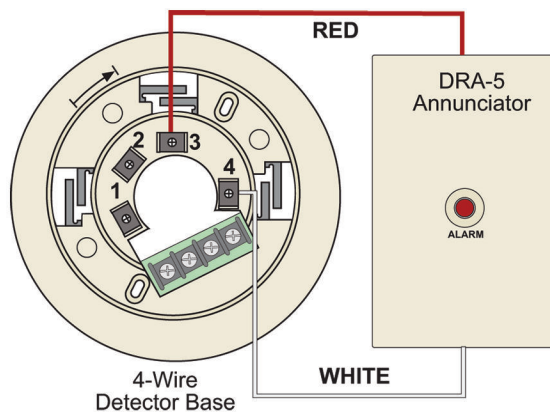
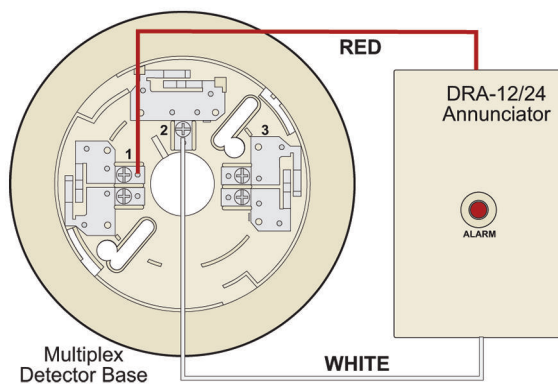


Figure 2.2: Wiring a DRA Annunciator to a 4-wire base

### Multiplex bases

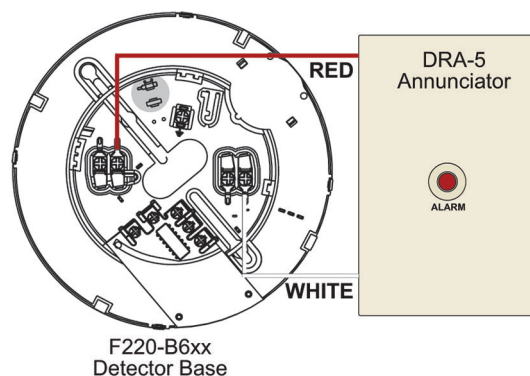
The D7050-B6 base used for multiplex detectors requires use of the DRA-12/24 Annunciator. Connect the positive (RED) lead to terminal 1 and the negative lead (WHITE) to terminal 2.



**Figure 2.3: Wiring a DRA Annunciator to multiplex bases**

### F220 bases

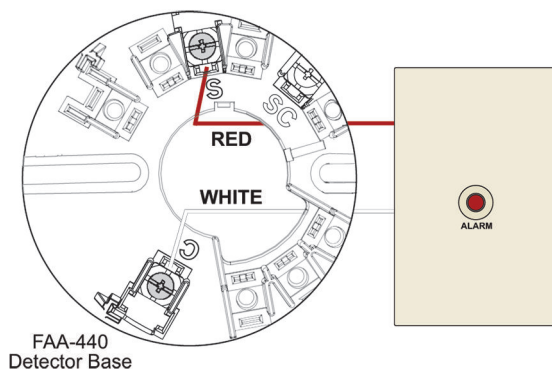
The F220-B6, F220-B6C, F220-B6E, F220-B6PM, F220-B6PS, F220-B6R, or F220-B6RS base used for F220 detectors requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal b1 and the negative lead (WHITE) to terminal c.



**Figure 2.4: Wiring a DRA Annunciator to F220\_Bases**

### FAA-440 standard bases

The FAA-440-B4 or FAA-440-B6 base used for FAP-440 and FAH-440 detectors requires use of the DRA-5 Annunciator or the DRA-12/24 Annunciator. Connect the positive (RED) lead to terminal S and the negative lead (WHITE) to terminal C.



**Figure 2.5: Wiring a DRA Annunciator to FAA-440 standard bases**

### FAA-440 isolator bases

The FAA-440-B4-ISO or FAA-440-B6-ISO base used for FAP-440 and FAH-440 detectors requires use of the DRA-5 Annunciator or the DRA-12/24 Annunciator. Connect the positive (RED) lead to terminal Sin and the negative lead (WHITE) to terminal C.

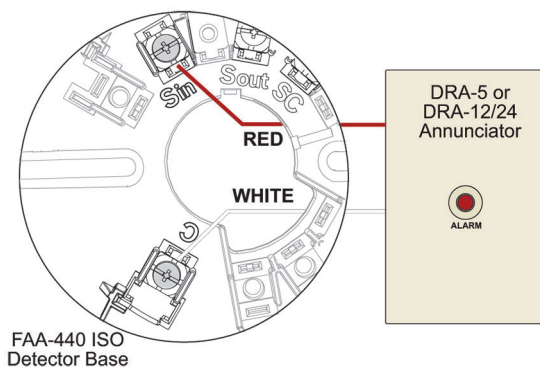


Figure 2.6: Wiring a DRA Annunciator to FAA-440 isolator bases

### FCA-500 bases

The FCA-500 or FCA-500-E base used for F220 detectors requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal V+ and the negative lead (WHITE) to terminal C.

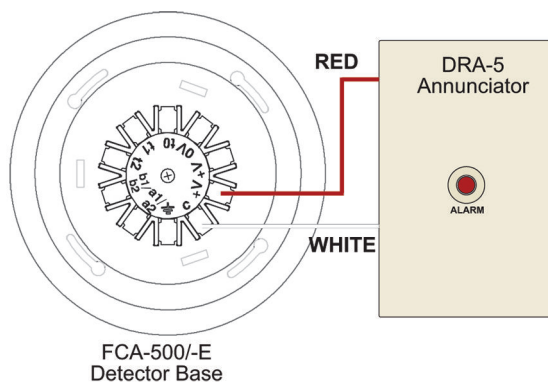


Figure 2.7: Wiring a DRA Annunciator to FCA-500 bases

### D340 duct smoke housing

The D340 duct smoke housing used for D285DH photoelectric smoke detection head requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal 12 (RMT LED) and the negative lead (WHITE) to terminal 9 (LOOP -).

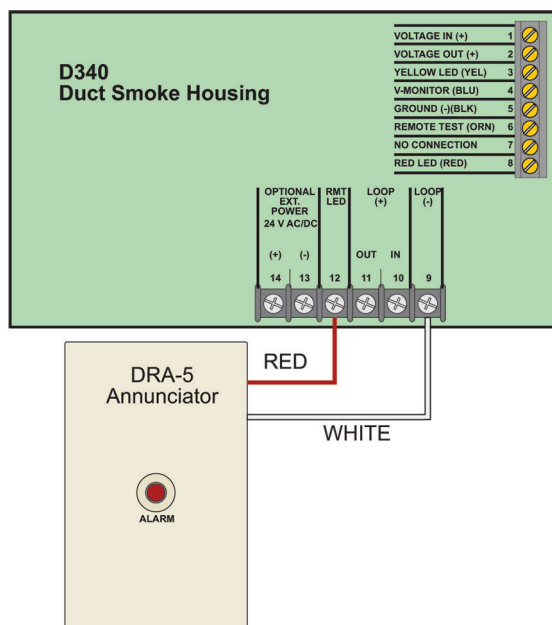


Figure 2.8: Wiring a DRA Annunciator to a D340 duct smoke housing

#### D341/D342 duct smoke housings

The D341 or D342 duct smoke housings used for the D285DH photoelectric smoke detection head or the D286 ionization smoke detection head requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal 3 (RED LED) and the negative lead (WHITE) to terminal 8 (GROUND).

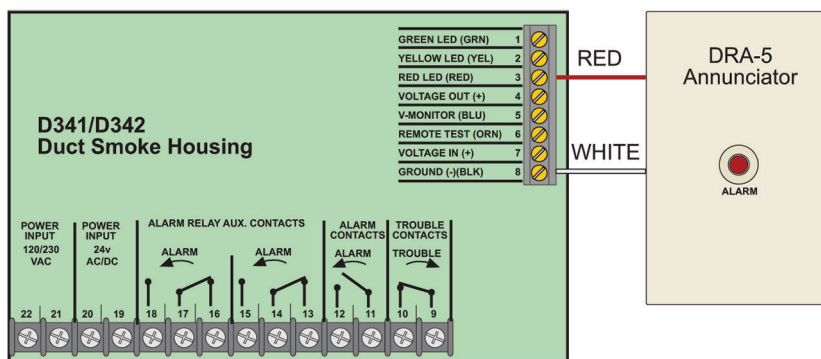


Figure 2.9: Wiring a DRA Annunciator to a D341 or D342 duct smoke housing

#### D343 MUX duct smoke housing

The D343 MUX duct smoke housing used for the D7050DH photoelectric smoke detection head requires use of the DRA-5 Annunciator. Connect the positive (RED) lead to terminal 8 (RED LED) and the negative lead (WHITE) to terminal 5 (GROUND).



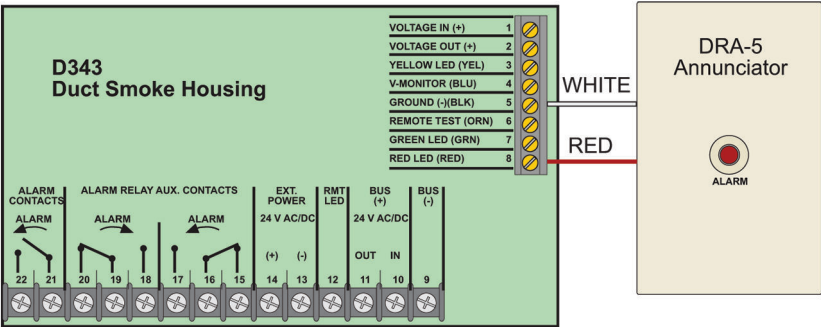


Figure 2.10: Wiring a DRA Annunciator to a D343 duct smoke housing

### 3 Technical data

#### Electrical

Voltage:	DRA-5: 5VDC DRA-12/24: 12 VDC – 24 VDC
Current Draw:	DRA-5: 10 mA at 5 V DRA-12/24: 10 mA at 24 V

#### Mechanical

Dimensions (HxWxD):	Standard single-gang wall plate; 4.85 in. x 3.1 in. x 0.25 in. (123.2 mm x 78.7 mm x 6.35 mm)
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