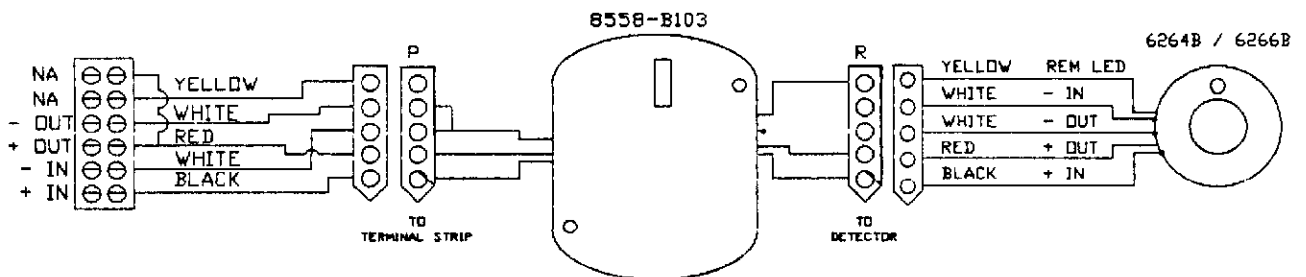


8558-B103 ADDRESSABLE DUCT TRANSPONDERS

With the release of the 8558 series of addressable transponders came many questions about the addressable duct detectors connections and capabilities. In the paragraphs below the connections and capabilities of the addressable duct detectors are explained in detail.

CONNECTIONS USING 6265B-00X DUCT HOUSING

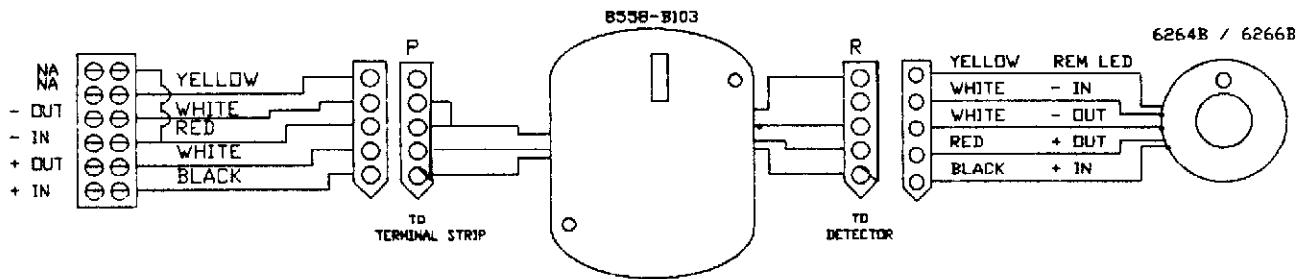
When the addressable duct detector interface (8558-B103) is used with the pre-wired duct housing (6265B-00X), the addressable transponder simply plugs between the terminal strip on the housing cover and the duct detector head itself (6264B or 6266B). The connectors are all five conductor molex plugs and are polarized and keyed to prevent incorrect connection. The addressable loop wiring is then terminated on the terminal strip on the duct housing cover according to the terminal markings on the cover beside the terminal strip. The addressable duct transponder (8558-B103) comes with a terminal strip / molex connector which should be discarded when using the pre-wired housing (6265B-00X). A drawing of this arrangement is shown below for your reference. In this configuration the test station supplied on the duct housing (6265B-00X) will not and cannot function as in a standard duct detector. Also any other remote devices such as remote alarm indicators (6256B), remote relays (6254B-003), or remote test stations (6262B-001) will not operate due to the fact that addressable devices cannot support them.



ADDRESSABLE DUCT DETECTOR CONNECTIONS
(6265B-001 OR 6265B-002 , 8558-B103 , 6264B OR 6266B)

CONNECTIONS USING 6260B DUCT HOUSING

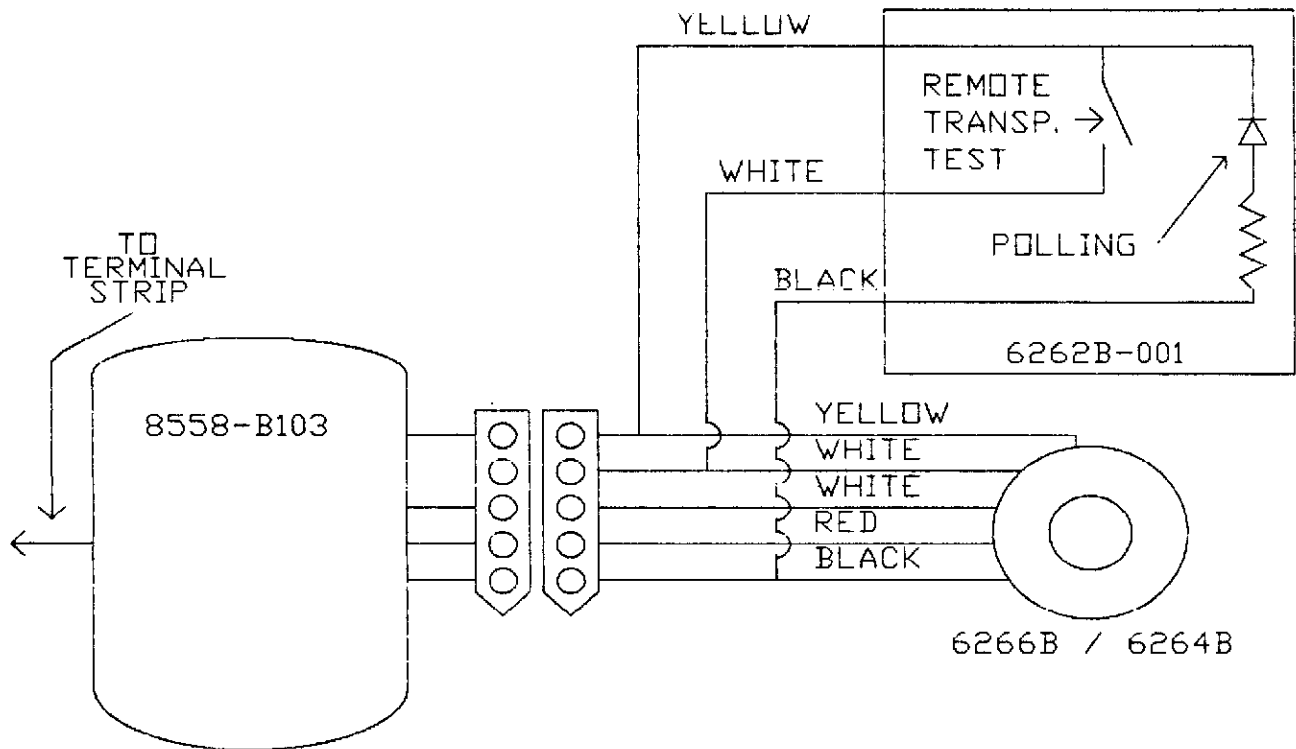
When the addressable duct detector interface (8558-B103) is used with the non pre-wired duct housing (6260B), the addressable transponder simply plugs between the duct head (6264B or 6266B) and the terminal strip supplied with the addressable transponder. The connectors are all five conductor molex plugs and are keyed and polarized to prevent incorrect connection. The addressable loop wiring is then terminated on the terminal strip which should be secured to the cover on the duct housing. The connections to this terminal strip are pictured below. This is important to note since there are no terminal references marked on the duct cover or the terminal strip. The figure below should be followed whenever using the 6260B housing with the 8558-B103 transponder.



**ADDRESSABLE DUCT DETECTOR CONNECTIONS
(6260B , 8558-B103 , 6264B OR 6266B)**

ALTERNATE CONFIGURATIONS

Since the addressable duct transponder cannot support conventional remote devices, (remote L.E.D. (6256B), remote relay (6254B-003), remote test station (6262B-001)), they should not be connected to the addressable transponder. Also, the test station supplied on the 6265B-001 and the test station and relay supplied on the 6265B-002 **will not work** on an addressable duct detector. The remote test station can however be used in an alternate configuration. When the remote test station is used in this alternate configuration its function changes from what is marked on the stainless plate. The keyswitch becomes a "REMOTE TRANSPONDER TEST" switch and the L.E.D. becomes a "POLLING" indicator which will flash as the transponder is polled from the 8500. In order to accomplish this configuration, the remote test station must be wired between the addressable transponder (8558-B103) and the duct detector head (6264B or 6266B) as shown in the diagram below.



ALTERNATE CONNECTION OF REMOTE TEST STATION

NOTE: THE KEYSWITCH WHEN USED AS DESCRIBED ABOVE, DOES NOT FUNCTIONALLY TEST THE DETECTOR, ONLY THE TRANSPONDERS ABILITY TO TRANSMIT AN ALARM CONDITION TO THE 8500.

NOTE: THE L.E.D. WHEN USED AS DESCRIBED ABOVE, DOES NOT INDICATE THE PRESENCE OF AN ALARM WITHIN THE DUCT UNIT, ONLY THAT THE TRANSPONDER IS BEING POLLED.