

**Installation Instructions  
for the  
DS7450/DS7452  
Single Multiplex Contact Points**

## 1.0 SPECIFICATIONS

The DS7450/DS7452 are Multiplex Contacts that are designed to operate with compatible two-wire multiplex systems such as the DS7400 Series Control/Communicators. They are intended as a replacement for conventional dry contacts, and to report an actual multiplex address to the control system.

**Control Panel Requirements:** A DS7400, DS7400X, or DS7400Xi control panel with a DS7430 multiplex expansion module. The DS7400 and DS7400X require ROM version 1.07 or greater.

**Current Draw:** 350µA (Standby and Alarm)

**Reed Contact Rating:** 0.5 amps @ 30 VDC

**Gap:** DS7450 - 3/4" (1.9 cm)  
DS7452 - 1-1/2" (3.8 cm)

**Temperature:** The storage and operating temperature range is 0° to +140°F (-17° to +60°C). *For U.L. Certified installations, the temperature range is +32° to +120°F (0° to +49°C).*

## 2.0 MULTIPLEX PROGRAMMING

*NOTE: DS7450/DS7452 can not be programmed as trouble on open zones.*

### Step 1 Program the zone assignment.

**NOTE:** Before programming the multiplex devices, you must first complete the zone programming for each device. Refer to the zone programming section in the control panel manual.

Zone Assignment Programming:	0022-0149	DS7400/DS7400X
	0018-0145	DS7400Xi

### Step 2 Disconnect the Multiplex Loop.

Disconnect all multiplex devices from the multiplex interface board (DS7430).

### Step 3 Enter Programmer's Mode.

Enter the programmer's mode by entering the programmer's code followed by # 0 at a control station (keypad).

### Step 4 Programming BusLoc® feature.

If you wish to use the BusLoc® feature, you must program a 5 digit code (e.g. 5 4 3 2 1) at programming address 9999. If you are not using the BusLoc® feature go to Step 5.

### Step 5 Enter Multiplex Programming Mode.

Begin the multiplex programming mode by entering address 9995 followed by the # key. The control will check the multiplex bus to confirm there is nothing connected to it. While it is checking the bus, the keypad will display the following:

**Checking  
Multiplex Bus**

### Step 6 Program the Contacts.

The control will prompt you to program the first device in the database. The keypad will display:

<b>Type of Device</b>	<b>Sens/Contact 009 Press # to Prog</b>	<b>Zone Number</b>
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If you wish to program a different zone number, press the \* key, and enter the 3-digit number of the zone you wish to program.

Connect the device to the DS7430 Multiplex bus and press the # key. The control will ask you which type of device you are programming. Press 6 for contact.

**Sensor? Press 4  
Contact? Press 6**

If the device is successfully programmed, the control will prompt you to connect another device to the multiplex bus. If the device is not programmed successfully, the control will sound a 3-beep error tone.

**Sens/Contact 010  
Press # to Prog**

Disconnect the device you just programmed, connect the next device (if any) to the bus, and press the # key.

Repeat the above sequence with any remaining multiplex devices. When all devices have been programmed, the control will display the following:

**Mux Zone  
Enter Address**

### Step 7 Exit Multiplex Programming Mode.

If you wish to exit the multiplex programming mode, press the \* key for two seconds. This will take you to the programmer's mode.

### Step 8 Exit Programmer's Mode.

**CAUTION: Any devices that are programmed as 24 hour zones will cause an alarm when you exit programmer's mode. Reports for these zones will be sent if they are programmed.**

If you wish to exit the programmer's mode, press the \* key for two seconds.

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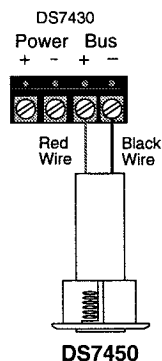
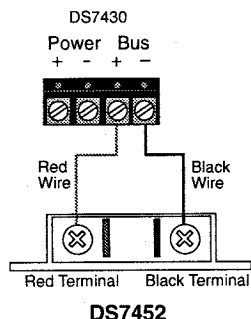
### 3.0 INSTALLATION

These instructions assume that the Control Panel is installed and is working properly.

**NOTE:** The contact point must be programmed before installation. See the programming instructions on page 1 for zone programming information.

Disconnect the power to the multiplex loop before running wires and connecting the contact point.

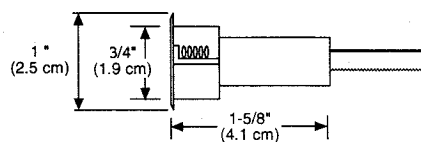
- Prepare the mounting surface for the contact point.
  - If it is a surface mount point, use the point as a template to locate the mounting screws.
  - If it is a flush point, drill a 3/4" (1.9 cm) hole where the point is to be mounted.
- Pull the two-wire multiplex wiring through the hole and securely connect it to the wires of the contact point.



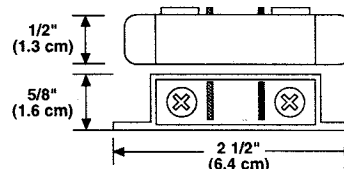
**NOTE:** The wiring connections are polarized. Connect the positive wire of the multiplex bus to the red wire or the terminal marked with red. Connect the negative wire of the multiplex bus to the black wire or the terminal marked with black.

- Dress the connection properly so that it goes in and out of the hole easily.
- Feed the wiring into the hole and mount the contact point. If it is a flush mount contact point, press-fit it into the hole.
- Prepare the mounting surface for the magnet that is adjacent to the location of the point.
  - If it is a surface mount point, use the point as a template to locate the mounting screws.
  - If it is a flush point, drill a 3/4" (1.9 cm) hole where the magnet is to be mounted.
- Mount the magnet.

### 4.0 DEVICE DIMENSIONS



DS7450 - 3/4" Flush Mount Contact Point



DS7452 - Surface Mount Contact Point