

## INSTALLATION INSTRUCTIONS FOR DUOTRONIC® SIGNALS CATALOG SERIES 5522, 5523, 5524 AND 5525 FOR USE IN HAZARDOUS LOCATIONS

### DESCRIPTION

Edwards' DUOTRONIC® signals, catalog series 5522, 5523, 5524 and 5525, are high decibel signaling appliances intended for use where distinctive audible signals are required in hazardous locations. The 5522 and 5524 series are horns, and the 5523 and 5525 series are sirens.

The 5522 and 5523 series are UL listed for use in Class I, Groups B, C and D locations, for both Divisions 1 and 2.

The 5524 and 5525 series are UL listed for use in Class I, Groups C and D; Class II, Groups E, F and G, and Class III locations, for both Divisions 1 and 2.

The flange bolts of all series of the signals are sealed in accordance with UL requirements to prevent disassembly and tampering.

### ELECTRICAL SPECIFICATIONS

CATALOG NO. SUFFIX	RATED VOLTAGE AC/DC	CURRENT (AMPS) AC/DC
-AS	12	1.3/0.7
-AQ	24	0.85/0.35
-AH	120	0.28/0.1

### MECHANICAL SPECIFICATIONS

Weight . . . . . 17.5 Pounds  
Dimensions . . . . . See Figure 1

### INSTALLATION

**1. Assemble Unit.** Fasten mounting bracket, bell, and re-entrant assembly to horn or siren driver using hardware provided. Refer to assembly instructions A-PP41944-0008 packaged with the unit.

- 2. Choose Mounting Location.** The horn or siren can be mounted to any solid surface. Ensure that mounting location provides adequate clearance to enable adjustment of the signal to the desired position after mounting. The signal position can be adjusted within an approximate 180-degree range vertically or horizontally depending on mounting of bracket.
- 3. Install Unit.** Mount unit in selected location using its mounting bracket and three bolts (not supplied). See Figure 1 for size and location of mounting holes.
- 4. Signal Direction Adjustment.** To adjust signal direction, loosen the two bolts shown in Figure 1. Rotate the signal to the desired position and then tighten the bolts.

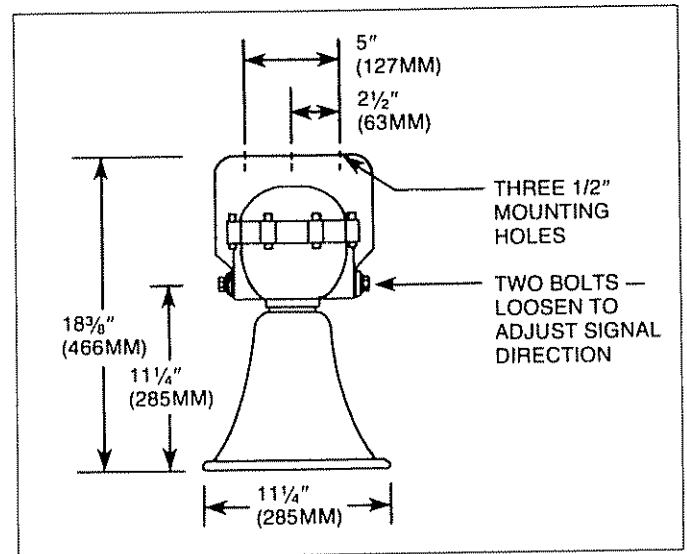


Figure 1. Signal Dimensions and Mounting Details

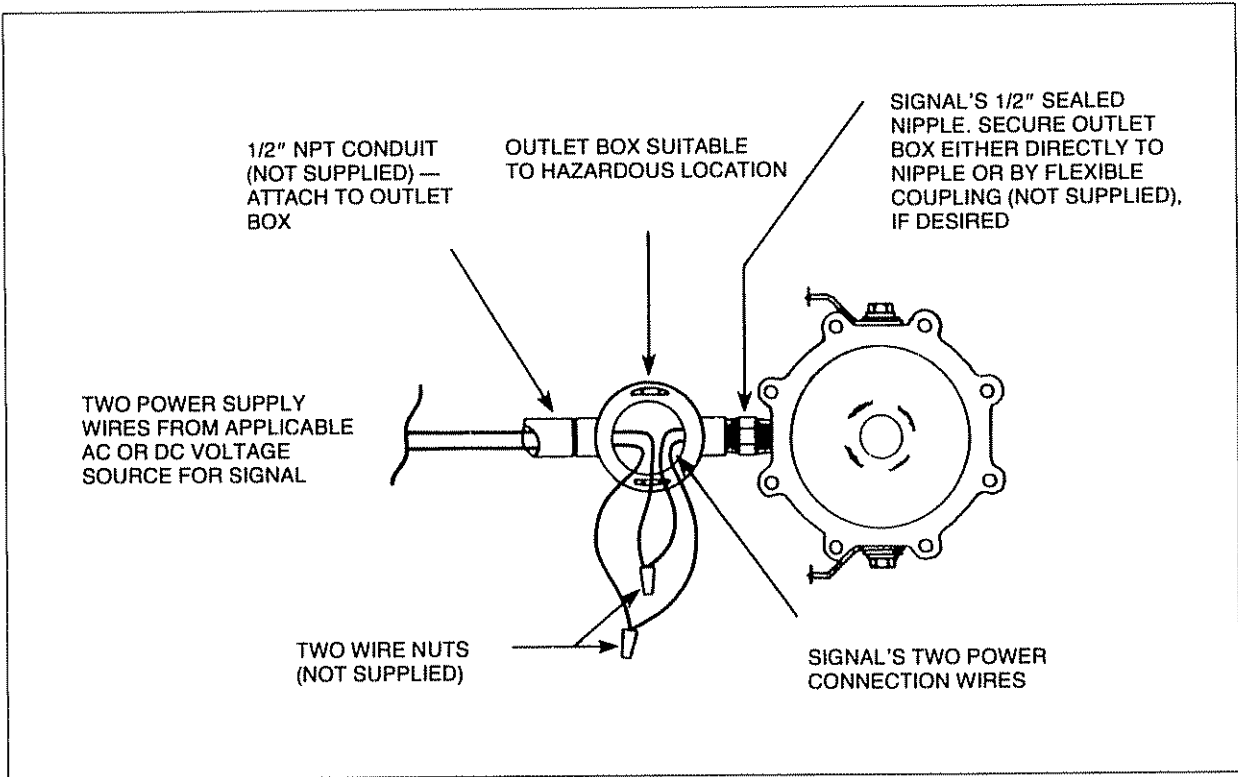


Figure 2. Wiring Installation and Connections

**5. Install Wires.** See Figure 2. Remove cover from the conduit outlet box (not supplied). Note that the outlet box must be suitable for use in the hazardous location. Feed the two power supply wires through the 1/2" NPT conduit (not supplied) into the outlet box. Also, feed the signal's two power connection wires either directly into the outlet box or, if desired, through a 1/2" flexible type coupling (not supplied) and then into box. Secure outlet box to signal's 1/2" sealed nipple, and secure conduit to outlet box.

**6. Connect Wires.** See Figure 2. Connect the power supply wires to the signal wires using two wire nuts (not supplied). Polarity need not be observed when making connections for a DC voltage source. Replace cover securely on conduit outlet box.

**7. Check Signal Operation.** Apply power to the signal and verify that it sounds.

**MAINTENANCE AND TEST**

Examine the signal periodically for accumulation of dirt and clean when necessary.  
 Test the signal monthly or at the intervals required by applicable regulations and codes.

**CAUTION**

Do not apply power to the signal until installation is complete and cover is secure on conduit outlet box.