



# MicroComm INSTALLATION INSTRUCTIONS



## ICM-300 Series Intercom Stations

### 1 Intent & Scope

This document describes the installation procedure for the ICM-300 series of intercom stations. The ICM-300 intercom stations include intercom station types ICM-320 and ICM-330. The ICM-300 intercom stations are half-duplex 25v/4-wire intercom stations compatible with DXI SAB-300 station audio boards and DXL SCC-300 station control cards.

### 2 Description

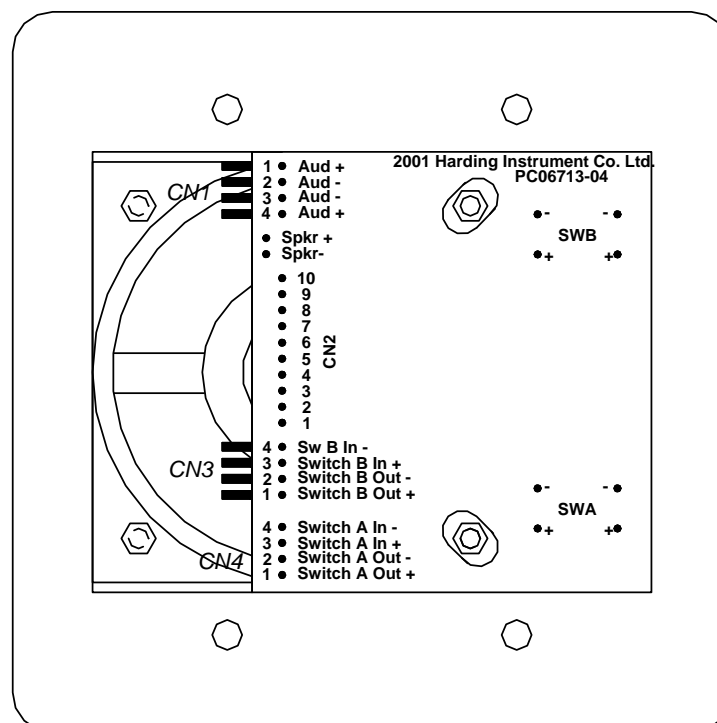
Each ICM-300 series intercom station is connected to the system with 4 wires, a single shielded twisted pair cable that carries both microphone and loudspeaker signals and a second pair of wires that provides a switch indicator signal.

The ICM-300 series intercom stations can be ordered for standard (interior) or weather resistant (exterior) installations and with or without a faceplate mounted push button switch

### 3 Installation

#### 3.1 Field Connections

A simplified diagram of the back view of the ICE-320 is shown below.



**Figure 1 Back view of ICM-320 showing header locations for CN1 and CN3**

The printed circuit board header labeled CN1 is always present and is used to connect audio between an exchange and the intercom station. The audio lines are connected to pins 1 and 2 of the header. The unsupervised switch pair is connected to pins 1 and 2 of the header CN3. Two 4-pin MTA-100-04 connectors, with the wires connected to positions 1 and 2 of the MTA-100-04 connectors connect the fielding wiring to the intercom station. This wiring allows the mating connector to be reversed without causing harm

MTA Pin	Signal
1	Audio +
2	Audio -
3	Audio -
	Audio +

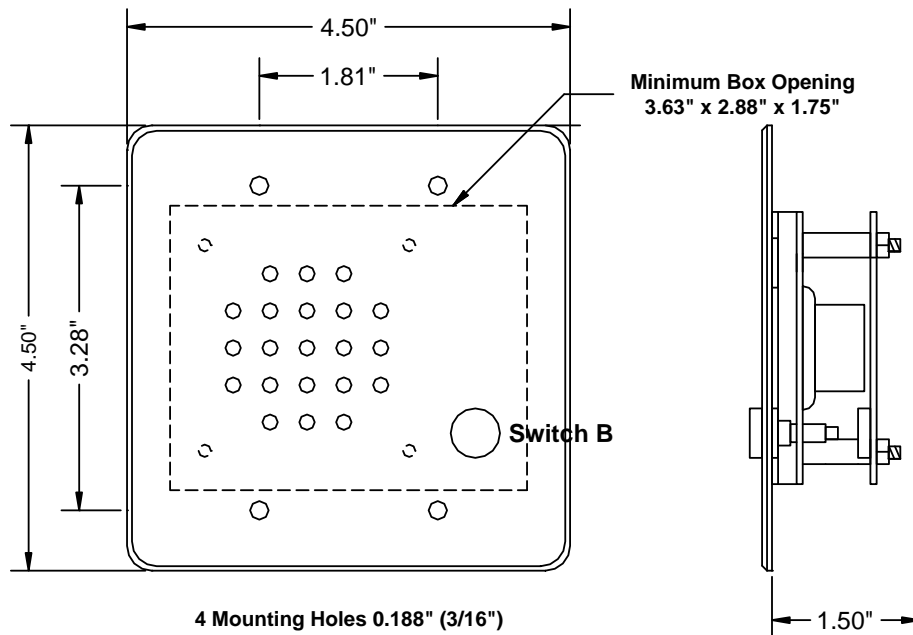
**MTA Pin Signals to Header CN1**

MTA Pin	Signal
1	Switch B Out +
2	Switch B Out -
3	Switch B In +
4	Switch B In -

**MTA Pin Signals to Header CN3**

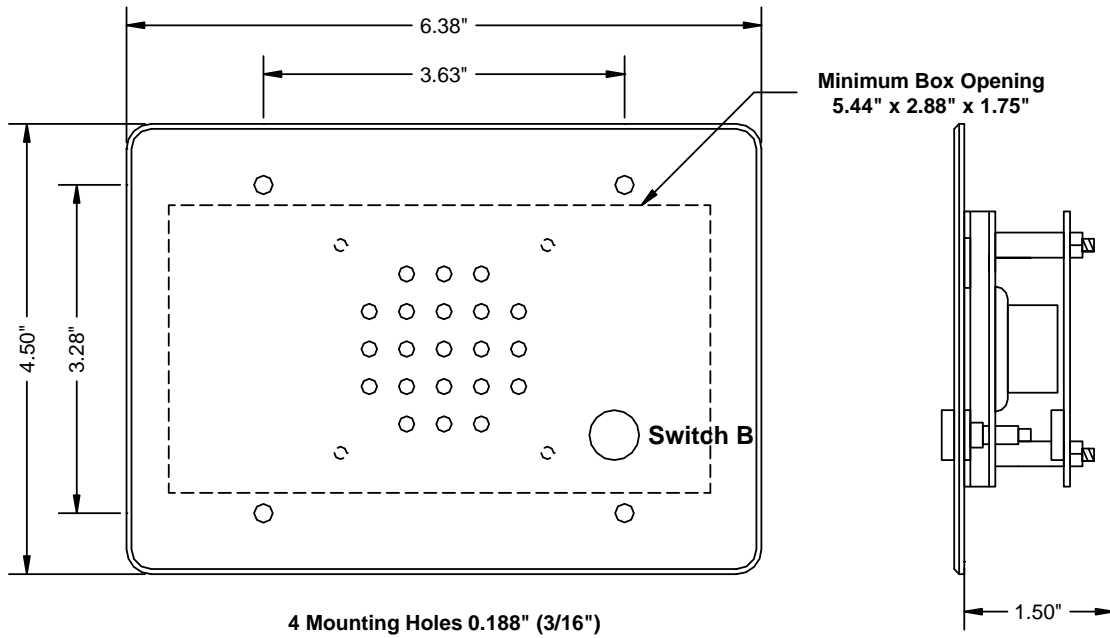
#### 4 Mounting the ICM

The ICM-320 intercom stations are designed to mount in a standard 2-gang electrical box, with the faceplate connected to the box by four #6-32 mounting screws. The box must have a minimum opening of 3.625"W x 2.875"H x 1.50"D. The ICM-330 intercom stations are designed to mount in a standard 3-gang electrical box, with a minimum opening of 5.438"W x 2.875"H x 1.50"D.



**Figure 2 Mounting Hole Details for 2-gang Intercom Stations**

# ICM-300 Series Intercom Stations



**Figure 3 Mounting Hole Details for 3-gang Intercom Stations**