ICM-431
Intercom Station

Description

The ICM-431 intercom station contains a micro-controller to provide local logical functions and is used with the DXI SAB-401 station audio board or the DXL SCC-401 station control card. It is suitable for use in high security areas and is designed for superb audio clarity in reverberant acoustic environments. The ICM-431 incorporates an integral loudspeaker/microphone, and circuitry for transmission of all station audio, power, switch closures, logic, and indicator signals over a single shielded pair cable for reduced installation costs. The ICM-431 mounts in a standard three-gang electrical box.
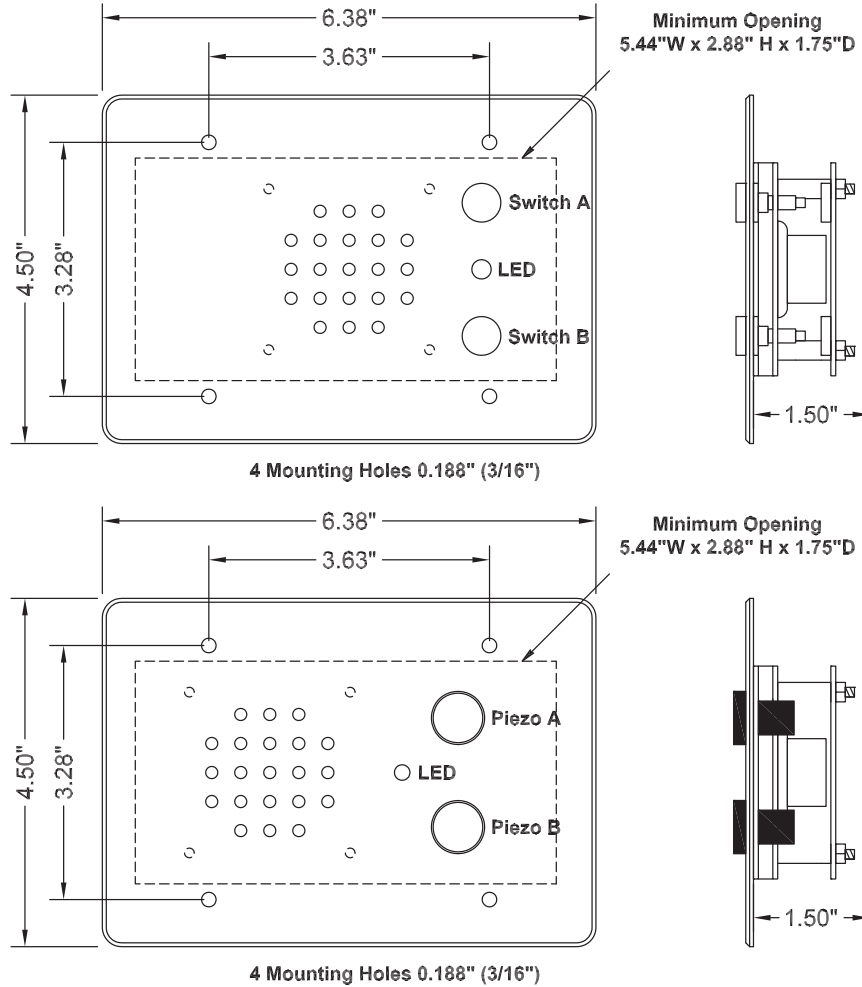
Features

- internal termination circuitry for line fault supervision to detect open and short circuit wiring faults

- half duplex audio channel to the intercom exchange

- internal microphone preamplifier for superior audio sensitivity

- switches are programmable for call request, program selection, or other functions

- optional status indicator LED or logic functions

- LED indicator display is programmable for various status conditions

- steel offset grille baffle plate protects the speaker from physical damage

- 11 ga heavy-duty brushed stainless steel faceplate with camfored edges

- conformal coating protects all electronic components from moisture in weather resistant version

- stainless steel hardware and baffle plate in weather resistant versions

- 2.5" mylar cone speaker

- choice of 0, 1, or 2 vandal resistant long life switches

- optional solid metal piezo-electric switches provide enhanced vandal resistance and extremely long life due to the total absence of moving parts

- mechanical switches available in standard, soft action, low temperature or mushroom button versions

- available without internal speaker for remote speaker mounting

- single shielded twisted pair 22 ga cabling for audio, switch closures, LED, and logic

- 4 terminal depluggable MTA100 series connector eliminates wire stripping during servicing and installation

- mounts on standard 3 gang electrical box

- compatible with all standard #6-32 mounting hardware allowing any type of security screw to be used

Specifications

Physical	4.5" H x 6.4" W x 1.75" D (114 x 163 x 45 mm)
Faceplate	
Heavy-duty	11 ga brushed stainless steel
Environmental	
Operating Temperature	32 to 122 °F (0 to 50 °C)
Weather resistant Intercom	-40 to 122 °F (-40 to 50 °C)
Storage Temperature	-40 to 158 °F (-40 to 70 °C)
Humidity	0 to 95 % non-condensing
Field Connections	4 pin MTA100 connector
Cabling	22 ga shielded twisted pair 2500 ft (750 m) maximum length
Switch Lifetime	
Standard	1 million operations
Piezo-electric switch	50 million operations
Speaker	2.5" (64 mm) mylar cone
Speaker Level	82 dB SPL at 1 m at 1 W
Microphone Level	10 mV at 74 dB SPL

Mechanical

Minimum Opening
5.44"W x 2.88" H x 1.75"D

6.38"
3.63"
4.50"
3.28"
Switch A
LED
Switch B
1.50"
4 Mounting Holes 0.188" (3/16")

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LED
Piezo B
1.50"
4 Mounting Holes 0.188" (3/16")

Ordering Information

Part number ICM-431-ABC-DEF

A   faceplate options
    1   14 gauge (no longer available)
    2   11 gauge
    3   11 gauge - labeled "Call"
    4   11 gauge - labeled "Call" & "Program"
    5   11 gaure - labeled "Call" & "Door"

B   weather resistant options
    1   standard (interior)
    2   weather resistant (exterior)

C   switch B options
    0   none
    1   standard
    2   cord jack*
    3   piezo-electric switch
    4   none with header
    5   standard with header
    6   mini-piezo
    7   anti vandal
    8   red mushroom button

D   switch A options
    0   none
    1   standard
    3   piezo-electric switch
    4   none with header
    5   standard with header
    6   mini-piezo
    7   anti vandal

E   options
    0   none
    1   LED

F   internal speaker options
    1   mylar cone

* pushbutton call cord must be ordered separately