



ICM-421 Intercom Station

Description

The ICM-421 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-421 incorporates an integral loudspeaker/microphone, and circuitry for transmission of all station audio, power, switch closures, logic and indicator signals over a single shielded cable for reduced installation costs. The ICM-421 mounts in a standard two-gang electrical box.

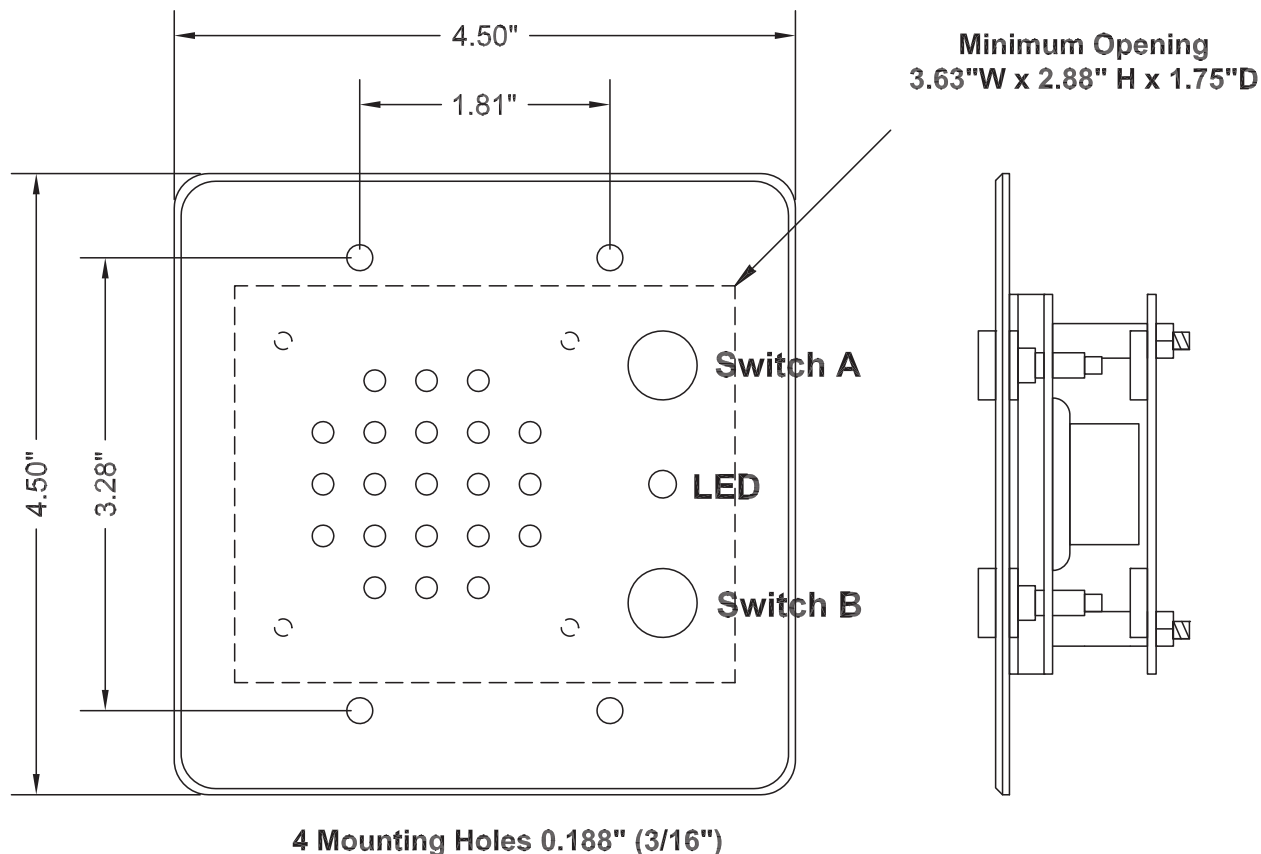
Features

- internal termination circuitry for line fault supervision to detect open and short circuit wiring faults
- half duplex audio channel to the intercom exchange
- internal 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 camfired 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
- can be ordered with optional large mushroom pushbutton switch (1.3" diameter)
- available without internal speaker for remote speaker mounting
- single shielded twisted pair 22 ga cabling for audio, switch(es), LED, and logic
- no connection to shield drain wire at the intercom station
- 4 terminal depluggable MTA100 series connector eliminates wire stripping during servicing and installation
- mounts on standard 2 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 4.5" W x 1.75" D (114 x 114 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	1 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



Ordering Information

Part number ICM-421-ABC-DEF

A	faceplate options	D	switch A options
	1 14 gauge (no longer available)		0 none
	2 11 gauge		1 standard
	3 11 gauge - labeled "Call"		4 none with header
	4 11 gauge - labeled "Call" & "Program"		5 standard with header
	5 11 gauge - labeled "Call" and "Door"		6 mini-piezo
B	weather resistant options		7 anti vandal
	1 standard (interior)	E	LED options
	2 weather resistant (exterior)		0 none
C	switch B options		1 LED
	0 none	F	internal speaker options
	1 standard		1 mylar cone
	2 cord jack*		
	4 none with header		
	5 standard with header		
	6 mini-piezo		
	7 anti vandal		
	8 red mushroom button		

* pushbutton call cord must be ordered separately

