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 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
- 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
Mechanical

Ordering Information

Part number ICM-421-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 gauge - labeled “Call” and “Door”

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

C  switch B options
   0  none
   1  standard
   2  cord jack*
   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
   4  none with header
   5  standard with header
   6  mini-piezo
   7  anti vandal

E  LED options
   0  none
   1  LED

F  internal speaker options
   1  mylar cone

* pushbutton call cord must be ordered separately

Minimum Opening
3.63”W x 2.88” H x 1.75”D

4 Mounting Holes 0.188” (3/16”)