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 baffl e 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
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 gauge - 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