Description

The ICM-420 is used with a DXI SAB-400 and SAB-401 station audio boards or the DXL SCC-400 and SCC-401 station control cards. It is suitable for use in high security areas and is designed for superb audio clarity in reverberant acoustic environments. The ICM-420 incorporates an integral loudspeaker/microphone, and circuitry for transmission of all station audio, power, and switch closures over a single shielded pair cable for reduced installation costs. The ICM-420 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
- Steel offset grille baffle plate protects the speaker from physical damage
- 11 ga heavy-duty brushed stainless steel faceplate with camforesd 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, and switch closures
- 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

<table>
<thead>
<tr>
<th>Physical</th>
<th>4.5” H x 4.5” W x 1.75” D (114 x 114 x 45 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faceplate</td>
<td>Heavy-duty 11 ga brushed stainless steel</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32 to 122 °F (0 to 50 °C)</td>
</tr>
<tr>
<td>Weather Resistant Intercom</td>
<td>-40 to 122 °F (-40 to 50 °C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to 158 °F (-40 to 70 °C)</td>
</tr>
<tr>
<td>Humidity</td>
<td>0 to 95% non-condensing</td>
</tr>
<tr>
<td>Field Connections</td>
<td>4 pin MTA100 connector</td>
</tr>
<tr>
<td>Cabling</td>
<td>22 ga shielded twisted pair 2500 ft (750 m) maximum length</td>
</tr>
<tr>
<td>Switch Lifetime</td>
<td>1 million operations</td>
</tr>
<tr>
<td>Speaker</td>
<td>2.5” (64 mm) mylar cone</td>
</tr>
<tr>
<td>Speaker Level</td>
<td>82 dB SPL at 1 m at 1 W</td>
</tr>
<tr>
<td>Microphone Level</td>
<td>10 mV at 74 dB SPL</td>
</tr>
</tbody>
</table>
**Mechanical**

**Ordering Information**

Part number ICM-420-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*
  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** Options
  0. none

- **F** internal speaker options
  1. mylar cone

* pushbutton call cord must be ordered separately

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**Minimum Opening**

3.63”W x 2.86” H x 1.75”D

**4 Mounting Holes 0.188” (3/16”)**