

## DL-35™ & DAC-55™ Door Monitors

GUARD YOUR REFRIGERATION



### DL-35™

The DL-35™ is a cost-effective and user-friendly door monitoring system designed for walk-in coolers and freezers. It provides essential features to enhance safety, efficiency, and energy conservation.

The DL-35 features a visual and audible alarm that activates when the door remains ajar beyond a user-defined time. Additionally, it includes a panic alarm function (when used with the optional IP-1 Illuminated Pushbutton) for increased operator safety. The DL-35 also automates the control of interior compartment lights, replacing traditional light switches and contributing to energy savings.

#### Features

- Door Ajar Alarm with visual and audible notification
- Panic Entrapment Alarm (with optional IP-1 Pushbutton)
- Automatic control of interior compartment lights
- Field-adjustable door monitor settings
- ETL Listed



### DAC-55™

The DAC-55™ is a comprehensive and advanced door monitoring system for walk-in coolers and freezers. It provides enhanced features for improved safety, efficiency, and energy conservation.

The DAC-55 includes all the features of the DL-35, such as door ajar alarms and panic alarms. In addition, the DAC-55 offers advanced functionalities like automatic control of the refrigeration system (fans and solenoid) based on door status. This feature optimizes refrigeration operation, reduces energy consumption, and minimizes wear and tear on the equipment.

#### Features

- Door Ajar Alarm with visual, audible, and remote notification
- Panic Entrapment Alarm (with optional IP-1 Pushbutton)
- Automatic control of refrigeration system (fans and solenoid) in various user-selectable configurations
- Automatic restarting of refrigeration system after a door ajar alarm condition
- Field-adjustable door monitor settings
- ETL Listed

## Operation

The DAC-55 and the DL-35 use low voltage magnetic contacts to monitor door status. (Additional contacts may be added to monitor multiple doors.) Both units use internal relays (dry contacts) to perform control functions.

		Monitored Conditions			
		Door Closed <i>normal operation*</i>	Door Opened	Door Opened Too Long <i>alarm delay times out</i>	Door Closed
System Functions	Door Ajar Alarm	No alarm.	Visual Alarm activates. Audible Alarm Delay activates. <i>Field adjustable, 5-45 minutes.</i>	Audible Alarm activates.	Alarm functions reset. No Alarm.
	Interior Lights	OFF	ON	ON	Lights turn off 10 minutes after door is closed. <i>Unless optional IP-1 is pressed if installed.</i>
	Refrigeration System DAC-55 only	OFF	Refrigeration operation may be interrupted depending upon setting of user selectable parameters.**	If refrigeration operation has been interrupted and door remains open for 40 seconds after audible sounds, refrigeration will automatically restart (Auto Restart).	Resume after safety delay.

\* Door closed at any time always restores normal operation (No Alarm, Lights Off, Refrigeration On).

\*\* The DAC-55 may be configured to affect refrigeration operation in a variety of user selectable configurations:

- 1. Constant On Refrigeration Switch:** When selected, refrigeration operation is unaffected when door is opened.
- 2. Refrigeration Shutoff Pre-Delay Adjustment:** Provides means for creating a period of time from when door is opened to when refrigeration operation is interrupted. (A significant feature for food service applications with frequent short duration opening and closing of compartment doors.) Range: 1-120 seconds.
- 3. Fan Shutoff Switch:** When selected, fans shut off immediately when door is opened. (Solenoid still responds to the Refrigeration Shutoff Pre-Delay Adjustment setting.)

## Specifications

	DL-35	DAC-55
Dimensions	<b>Surface:</b> 4.5" L x 2.75" W x 2.5" D	<b>Surface:</b> 8" L x 6" W x 1.8" D
Power	120 VAC @ 20 mA, surge protected (Other operating voltages available)	120 VAC @ 80 mA, surge protected (Other operating voltages available)
Contacts	<b>Lights:</b> N/O Dry Contacts, 30A @ 120 or 240 VAC (Built-in arc suppression on all control contacts to minimize pitting)	<b>Lights:</b> N/O dry contacts, 30A; <b>Fans:</b> N/C dry contacts, 30A; <b>Solenoid:</b> N/C dry contacts, 5A; <b>Alarm relay:</b> N/O & N/C dry contacts, 1A @ 12 VDC
Audible Alarm	<b>Piezo horn:</b> Frequency -3.8kHz, SPL -85dB @ 3' typical	<b>Piezo horn:</b> Frequency -2500kHz, SPL -100dB @ 30cm typical
Visual Alarm	Red LED	Strobe light
Time Delay	Door Ajar Alarm (Range: 5-45 minutes)	Door Ajar Alarm (Range: 5-45 minutes), Refrigeration shutoff pre-delay (Range: 1-120 seconds)

