

OVERVIEW

The OTS-HHB monitors through-beam infrared sensors, access control contacts, and barrier position sensors to control the motion of the half height barriers mounted in the center of the lane housing. The barriers are normally extended, and swing into the lane housing when a valid card signal is received from the card access system. The barriers remain in the retracted position while the person passes through the lane, then are reset to the extended position when the lane is cleared. The card access system is interfaced with the optical turnstile control system. All lane controls and alarms are communicated with relay contacts between the card access system and the optical turnstile system. Lane displays and sounders are also controlled from the optical turnstile control system.

FEATURES

- ◇ CARD IN / CARD OUT OPERATION
- ◇ DAY / NIGHT MODE
- ◇ BARRIER BYPASS MODE
- ◇ ANTI-CRAWL SENSORS
- ◇ SAFETY SENSORS TO PREVENT BARRIER MOTION WHILE A PERSON IS IN THE BARRIER MOVEMENT AREA
- ◇ BACKLIT DISPLAY INDICATOR GRAPHICS
- ◇ AUTOMATIC ALARM RESET
- ◇ TAILGATE SENSITIVITY FIELD ADJUSTABLE
- ◇ DURABLE STAINLESS STEEL CONSTRUCTION
- ◇ FOOTPRINT: 6x48x38 INCHES
- ◇ BRUSHED STAINLESS STEEL FINISH
- ◇ SPECIALTY FINISHES AVAILABLE
- ◇ CLEAR POLYCARBONATE BARRIERS WITH SCRATCH RESISTANT COATING
- ◇ ADA COMPLIANT
- ◇ BASIC LANE CONTROL DESKTOP REMOTE INCLUDED
- ◇ OPTIONAL COLOR TOUCHSCREEN DISPLAY WITH NETWORK INTERFACE AVAILABLE
- ◇ OPTION FOR TOUCHSCREEN DISPLAY IS SECURED IPHONE/IPAD INTERFACE



One person is allowed to pass through the walkway for each valid card presented. If a person walks through the passageway without presenting a valid card, an alarm is generated. A sounder in the housing alerts area personnel that a violation has occurred, and an alarm relay contact notifies the access control system of the alarm.

OPERATION

VALID CARD USAGE When a valid card contact is received at the lane control, the barriers retract into the lane housing. After the person passes through the lane and all IR sensors are cleared the barriers reset to the extended position.

FREE EXIT MODE The optical turnstile system has two operating modes - CARD IN / CARD OUT and CARD IN / FREE EXIT. When the system is in FREE EXIT MODE, the sensors at the secured end of the lane determine that a person is exiting and the barriers automatically retract into the lane housing to allow exit passage. The barriers are reset to the extended position after the person passes through the walkway.

CUT SHEET CONTINUED

TAILGATE ALARM When the optical turnstile system detects a Tailgate Violation, the barriers are sent to the extended position after the first person passes through the barrier movement area. Multiple IR sensors are positioned throughout the lane passage area so that a tailgate violation is determined prior to the violating person reaching the barrier movement area.

BARRIER BYPASS The barrier operation may be Bypassed with a contact from the card access system to allow for optical turnstile to operate without the barrier. The barriers retract into the lane housing until the Bypass contact is reset. The optical turnstile continues to operate normally.

EMERGENCY OPERATION An Emergency Override Contact from the card access or fire alarm system will cause the barriers to be retracted into the lane housing, and the motion control system will be disabled so that the barriers cannot be extended into the lane passageway.

EMERGENCY EXIT If the system is in Card In / Card Out operation, and an emergency event happens and the Fire Alarm System Contact has not yet been activated, a person can still exit the secured area by walking into the lane from the secured side. The sensors will see the person exiting, generate an EXIT ALARM and retract the barriers to allow exit.

TECHNICAL SPECIFICATIONS

Power 120 VAC

Inputs Valid Entry Card Contact: 1 Lock Control Relay from card reader system closes for entry.

Valid Exit Card Contact: 1 Lock Control Relay from card reader system closes for exit.

Invalid Card Contact: contact closes when an invalid card is presented to the reader.

Fire Alarm / Barrier Bypass: contact is open for active barriers / contact is closed for disabled barriers

Lane Bypass: contact closes when lane is placed in bypass mode.

Day / Night Mode: contact is open for Card In / Card Out operation (Night Mode), close contact for Card In/ Free Exit operation. (Day Mode)

Through beam infrared sensors, mounted inside housing.

Outputs 1 Normally Closed Alarm Status Relay

1 Normally Closed Bypass Status Relay

Alarm sounder @ 85dB. Sounder is on during alarm.

Access Denied Chime sounder @ 85dB. Chime is on when access is denied.

Green Display graphic indicates entry access enabled.

Red Display graphic indicates Secured Mode. Entry will generate an alarm.

Field

Adjustments Tailgate Sensitivity Adjustment - sets the sensitivity of the tailgate detection software.

Beam Block – sets the time delay to Beam Block Alarm.

Alarm Auto Reset – sets the Time Delay for Alarm Reset.

Unused Access Reset Delay – sets the Time Delay to reset the lane to normal if a valid card is presented and the lane passage does not occur.

Construction The sub-base and internal frame are constructed of 3/8" steel. There are 8 mounting holes and access for wiring.

Housing is stainless steel with brushed finish.

Dimensions 8.5" wide x 48" length x 38"

Mounting The sub-base is bolted to the floor using the provided anchor bolts. The housing frame is mounted to the sub-base.

Spacing Standard Passageways. The housings should be spaced to provide 30 to 32 inches of walkway space for standard passageways.

ADA Passageways. The housings should be spaced to provide a minimum of 36 inches of walkway space for ADA compliant passageways

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