

OVERVIEW

The OTS-SS-ARM monitors through-beam infrared sensors, access control contacts, and arm position sensors to control the motion of the barriers or arms mounted in the center of the lane housing. The arms are normally extended, then retract into the lane housing when a valid card signal is received from the card access system. The arms 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
- ARM 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: 10 X 60 X 38 INCHES
- BRUSHED STAINLESS STEEL FINISH
- SPECIALTY FINISHES AVAILABLE



Model Shown: 60" Stainless Steel, Single Arm Units,
Beveled Ends

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 arm retracts into the lane housing. The arm swings away from the direction of valid passage. After the person passes through the lane and all IR sensors are cleared the arm resets 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 arm retracts into the lane housing to allow exit passage. The arm is reset to the extended position after the person passes through the arm movement area.

TAILGATE ALARM When the optical turnstile system detects a tailgate violation, the arms are sent to the extended position after the first person passes through the arm 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 arm movement area.

ARM BYPASS The arm operation may be bypassed with a contact from the card access system to allow for optical turnstile operation without arm operation. The arms retract into the lane housing until the arm 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 arms to be retracted into the lane housing, and the motion control system will be disabled so that the arms cannot be extended into the lane passageway.

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.
Arm Bypass: contact is open for active arms / contact is closed for disabled arms
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 @ 85 dB. 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.
Fail-Safe / Fail Secure Lock voltage select.

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 10" x 60" 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 NORMAL PASSAGEWAYS. The housings should be spaced to provide 20 to 24 inches of walkway space for normal passageways.

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