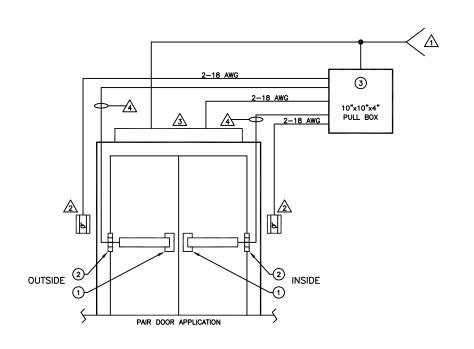
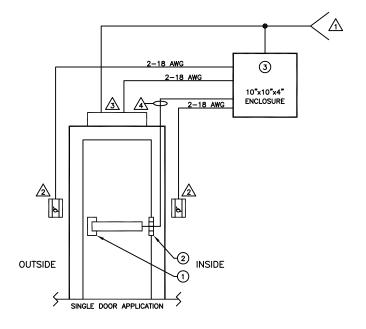


ACSI Series 1550K-MD and 1550-MD Motor Drive Electric Latch Retraction

Riser and Point-to-Point Drawings for Standard Access Control and Day/Night Applications for Openings Using Automatic Door Operators

For Use with ACSI Part Numbers 1420 and 1420-DN





ACSI SUPPLIED EQUIPMENT:

- SERIES 1550K-MD OR 1550-MD
 MOTOR DRIVE ELECTRIC LATCH RETRACTION
- 2 SERIES 1100 POWER TRANSFER HINGE
- (3) 1420 POWER SUPPLY

NOTES:

1 TO 115V., 60HZ., 15A. SERVICE.

NOTE: IF FIRE ALARM INTERFACE IS REQUIRED, RUN 115V SERVICE THROUGH FIRE ALARM—CONTROLLED RELAY N.C. CONTACTS.

2 WALL ACTIVATION SWITCH

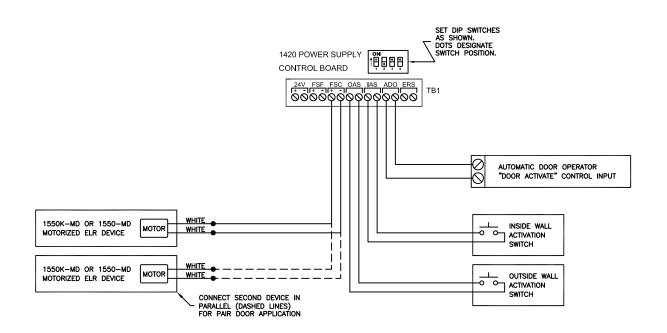
3 AUTOMATIC DOOR OPERATOR

WIRE GAUGE MAX. LENGTH 2-COND. CABLE
22 AWG 70 FEET
20 AWG 110 FEET

18 AWG 180 FEET 16 AWG 280 FEET 14 AWG 450 FEET 12 AWG 720 FEET

RISER DIAGRAM FOR STANDARD AUTOMATED DOOR OPENING SYSTEM APPLICATION USING SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES

ARCHITECTURAL CONTROL SYST INCORPORATED ST. LOUIS, MISSOU 1-800-783-5588	EMS, FRACTION ±1/64	DECIMAL ± .006 REAM001		RELEASED REV.	CRH APPRV.
DESCRIPTION	DRAWING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/7/14
ACSI P/N 1420	REF 6037-R1	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/7/14
ELR ACCESS CONTROL	KEF 6037-K1		DO NOT	SCALE THIS D	RAWING



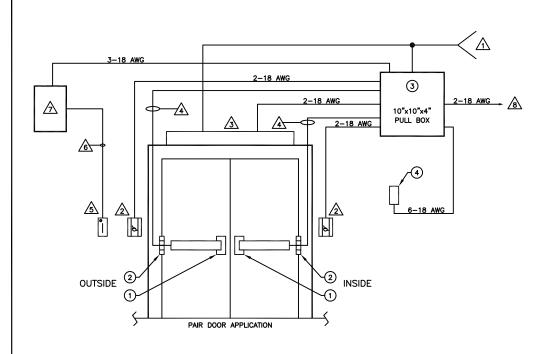
OUTSIDE OR INSIDE WALL ACTIVATION SWITCH SEQUENTIALLY RETRACTS LATCHBOLT AND ACTIVATES AUTOMATIC DOOR OPERATOR.

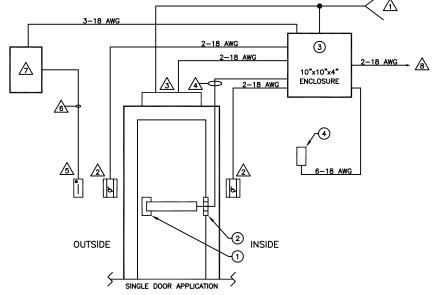
IF THE 1420 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION WILL IMMEDIATELY PROJECT LATCHBOLT AND DISABLE USE OF OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES.

NOTE: IF THE FIRE ALARM ACTIVATES DURING A "DOOR OPEN" CYCLE, THE LATCHBOLT WILL IMMEDIATELY PROJECT AND THE OUTSIDE/INSIDE WALL ACTIVATION SWITCHES WILL IMMEDIATELY BECOME DISABLED, BUT THE THE SIGNAL TO THE AUTOMATIC DOOR OPERATOR TRIGGER INPUT WILL TERMINATE APPROXIMATELY ½ SEC. AFTER THE ALARM HAS ACTIVATED.

POINT-TO-POINT WIRING DIAGRAM STANDARD ACCESS CONTROL WITH AUTOMATIC DOOR OPERATOR USING SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES

	ARCHITECTURAL CONTROL SYST INCORPORATED ST. LOUIS, MISSOU 1-800-753-5558	EMS,	TOLERANCES UNLESS FRACTION ±1/84 DECIMAL ± .006 ANGULAR ±1°	+.007 DRILL001 +.001 REAM000 PUNCH004	10/7/14 DATE	RELEASED REV.	CRH APPRV.
P	ESCRIPTION	DRAWING NO.		MATERIAL	SCALE AU	DRAWN BY CRH	DATE 10/7/14
	ACSI P/N 1420	DEE	6037-P1	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/7/14
	ELR ACCESS CONTROL	KEF	6037-P1		DO NOT	SCALE THIS D	RAWING





ACSI SUPPLIED EQUIPMENT:

- 1 SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELECTRIC LATCH RETRACTION
- 2 SERIES 1100 POWER TRANSFER HINGE
- (3) 1420 POWER SUPPLY
- (4) RM RELAY MODULE

NOTE: DO NOT LOCATE MORE THAN 10 FT. FROM POWER SUPPLY

NOTES:

1 TO 115V., 60HZ., 15A. SERVICE.

NOTE: IF FIRE ALARM INTERFACE IS REQUIRED, RUN 115V SERVICE THROUGH FIRE ALARM-CONTROLLED RELAY N.C. CONTACTS.

wall activation switch automatic door operator

A	WIRE (SAUGE	MAX.	LENGTH	2-COND.	CABLE
	22 A			70	FEET	
	20 A	WG		110	FEET	

20 AWG 110 FEET 18 AWG 180 FEET 16 AWG 280 FEET 14 AWG 450 FEET 12 AWG 720 FEET

S CARD READER UNIT

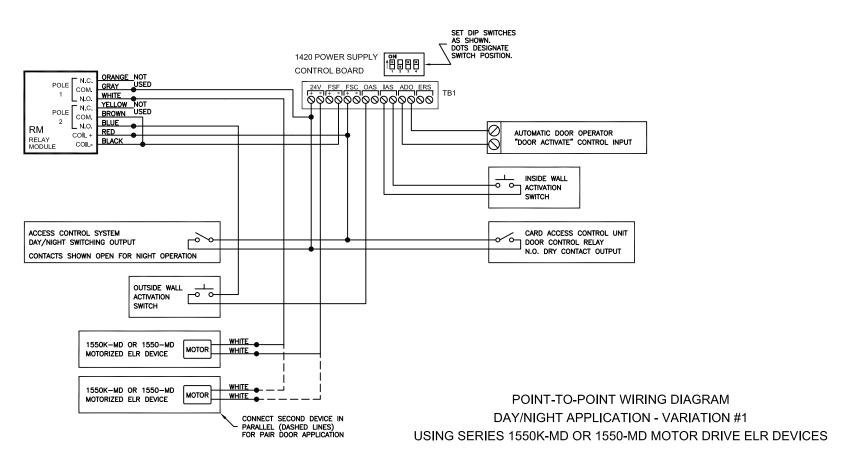
6 CARD READER POWER/DATA CABLE

CARD ACCESS CONTROL UNIT CONTAINING DOOR CONTROL RELAY RESPONDING TO CARD READER SWIPE FOR MOMENTARY AUTHORIZED ENTRY (NIGHT MODE)

ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT (TIME CLOCK, COMPUTER—CONTROLLED TIME SCHEDULE, ETC.)

RISER DIAGRAM FOR DAY/NIGHT AUTOMATED DOOR OPENING SYSTEM APPLICATION USING SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES

ARCHITECTURAL CONTROL SYSTEMS INCORPORATED ST. LOUIS, MISSOURI 1-800-763-5558	TOLERANCES UNLESS S, FRACTION ±1/64 DECIMAL ± .006 ANGULAR ±1"	+.007 DRILL001 +.001 REAM000 +.004 PUNCH001	2/10/15 10/7/14 DATE	A RELEASED REV.	CRH CRH APPRV.
DESCRIPTION DRA	WING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/7/14
ACSI P/N 1420-DN	REF 6037-R2	\rightarrow	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/7/14
ELR ACCESS CONTROL	REF 6037-R2		DO NOT	SCALE THIS D	RAWING



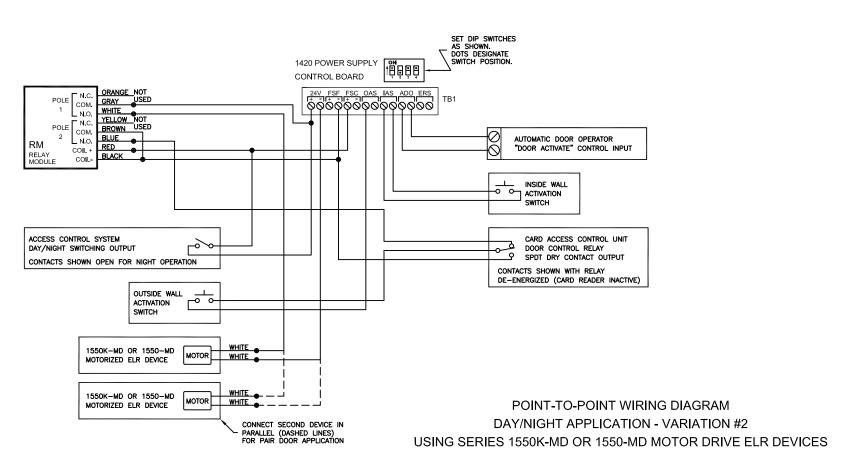
WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR DAY OPERATION (DRY CONTACTS CLOSED), THE LATCHBOLT WILL RETRACT. PUSHING THE OUTSIDE OR INSIDE WALL ACTIVATION SWITCH WILL ACTIVATE THE AUTOMATIC DOOR OPERATOR.

WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR NIGHT OPERATION (DRY CONTACTS OPEN), THE LATCHBOLT WILL PROJECT AND THE OUTSIDE WALL ACTIVATION SWITCH BECOMES DISABLED. A VALID SWIPE FROM THE CARD READER WILL TEMPORARILY RETRACT THE LATCHBOLT. WHILE THE CARD READER IS IN ITS ACTIVATED STATE, THE OUTSIDE WALL ACTIVATION SWITCH IS ENABLED FOR ACTIVATING THE AUTOMATIC DOOR OPERATOR. THE INSIDE WALL ACTIVATION SWITCH IS ALWAYS ENABLED IN NIGHT MODE AND WILL SEQUENTIALLY RETRACT THE LATCHBOLT AND ACTIVATE THE AUTOMATIC DOOR OPERATOR.

IF THE 1420 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION OCCURRING WHILE IN DAY MODE WILL IMMEDIATELY PROJECT THE LATCHBOLT AND DISABLE USE OF THE OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES. IN NIGHT MODE WHEN A FIRE ALARM CONDITION OCCURS, THE LATCHBOLT WILL REMAIN PROJECTED AND BOTH OUTSDIE AND INSIDE WALL ACTIVATION SWITCHES BECOME DISABLED.

NOTE: IF THE FIRE ALARM ACTIVATES DURING A "DOOR OPEN" CYCLE (DAY OR NIGHT MODE), THE LATCHBOLT WILL IMMEDIATELY PROJECT AND THE OUTSIDE/INSIDE WALL ACTIVATION SWITCHES WILL IMMEDIATELY BECOME DISABLED, BUT THE THE SIGNAL TO THE AUTOMATIC DOOR OPERATOR TRIGGER INPUT WILL TERMINATE APPROXIMATELY & SEC. AFTER THE ALARM HAS ACTIVATED.

ARCHITECTURAL CONTROL SYST INCORPORATED 11–800–753–5558	EMS, FRACTION ±1/64	S NOTED +.007 DRILL +.007 +.001 +.001 REAM000 +.004 PUNCH001	12/18/14 10/7/14 DATE	A RELEASED REV.	CRH CRH APPRV.
DESCRIPTION	DRAWING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/7/14
ACSI P/N 1420-DN	REF 6037-P2-1	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/7/14
ELR ACCESS CONTROL	KEF 6037-F2-1		DO NOT	SCALE THIS D	RAWING



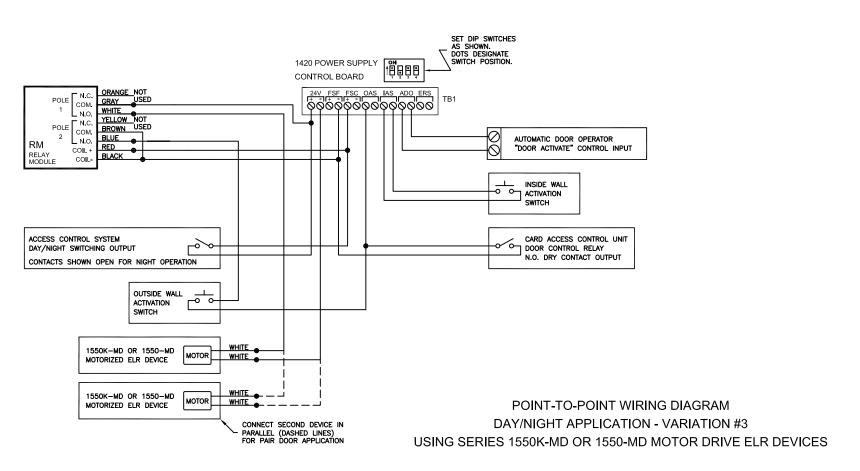
WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR DAY OPERATION (DRY CONTACTS CLOSED), THE LATCHBOLT WILL RETRACT. PUSHING THE OUTSIDE OR INSIDE WALL ACTIVATION SWITCH WILL ACTIVATE THE AUTOMATIC DOOR OPERATOR.

WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR NIGHT OPERATION (DRY CONTACTS OPEN), THE LATCHBOLT WILL PROJECT AND THE OUTSIDE WALL ACTIVATION SWITCH BECOMES DISABLED. A VALID SWIPE FROM THE CARD READER WILL ENABLE THE OUTSIDE WALL ACTIVATION SWITCH TO SEQUENTIALLY RETRACT THE LATCHBOLT AND ACTIVATE THE AUTOMATIC DOOR OPERATOR. THE INSIDE WALL ACTIVATION SWITCH IS ALWAYS ENABLED IN NIGHT MODE AND WILL SEQUENTIALLY RETRACT THE LATCHBOLT AND ACTIVATE THE AUTOMATIC DOOR OPERATOR.

IF THE 1420 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION OCCURRING WHILE IN DAY MODE WILL IMMEDIATELY PROJECT THE LATCHBOLT AND DISABLE USE OF THE OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES. IN NIGHT MODE WHEN A FIRE ALARM CONDITION OCCURS, THE LATCHBOLT WILL REMAIN PROJECTED AND BOTH OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES BECOME DISABLED.

NOTE: IF THE FIRE ALARM ACTIVATES DURING A "DOOR OPEN" CYCLE (DAY OR NIGHT MODE), THE LATCHBOLT WILL IMMEDIATELY PROJECT AND THE OUTSIDE/INSIDE WALL ACTIVATION SWITCHES WILL IMMEDIATELY BECOME DISABLED, BUT THE THE SIGNAL TO THE AUTOMATIC DOOR OPERATOR TRIGGER INPUT WILL TERMINATE APPROXIMATELY & SEC. AFTER THE ALARM HAS ACTIVATED.

ARCHITECTURAL CONTROL SYST INCORPORATED INCORPORATED 1-800-753-5558	EMS, FRACTION ±1/64	S NOTED +.007 DRILL +.007 +.001 +.001 REAM000 +.004 PUNCH001	12/18/14 10/8/14 DATE	A RELEASED REV.	CRH CRH APPRV.
DESCRIPTION	DRAWING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/8/14
ACSI P/N 1420-DN	REF 6037-P2-2	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/8/14
ELR ACCESS CONTROL	REF 6037-F2-2		DO NOT	SCALE THIS D	RAWING



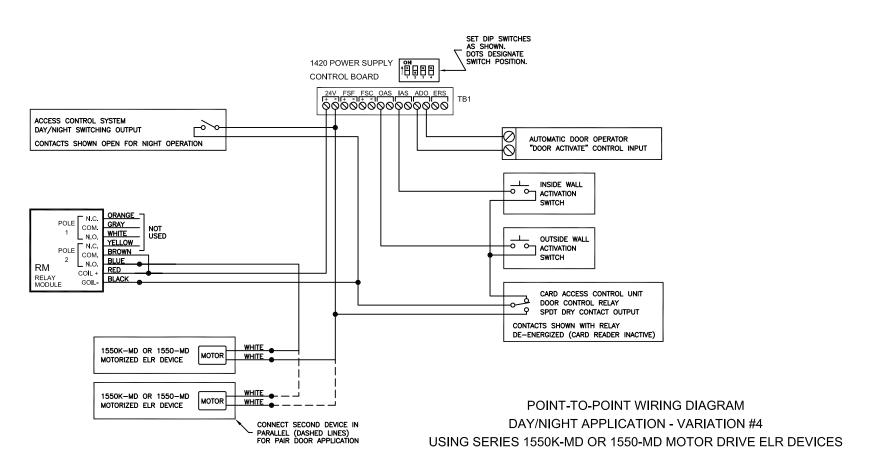
WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR DAY OPERATION (DRY CONTACTS CLOSED), THE LATCHBOLT WILL RETRACT. PUSHING THE OUTSIDE OR INSIDE WALL ACTIVATION SWITCH WILL ACTIVATE THE AUTOMATIC DOOR OPERATOR.

WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR NIGHT OPERATION (DRY CONTACTS OPEN), THE LATCHBOLT WILL PROJECT AND THE OUTSIDE WALL ACTIVATION SWITCH BECOMES DISABLED. A VALID SWIPE FROM THE CARD READER WILL SEQUENTIALLY RETRACT THE LATCHBOLT AND ACTIVATE THE AUTOMATIC DOOR OPERATOR. THE INSIDE WALL ACTIVATION SWITCH IS ALWAYS ENABLED IN NIGHT MODE AND WILL SEQUENTIALLY RETRACT THE LATCHBOLT AND ACTIVATE THE AUTOMATIC DOOR OPERATOR.

IF THE 1420 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION OCCURRING WHILE IN DAY MODE WILL IMMEDIATELY PROJECT THE LATCHBOLT AND DISABLE USE OF THE OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES. IN NIGHT MODE WHEN A FIRE ALARM CONDITION OCCURS, THE LATCHBOLT WILL REMAIN PROJECTED AND BOTH OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES BECOME DISABLED.

NOTE: IF THE FIRE ALARM ACTIVATES DURING A "DOOR OPEN" CYCLE (DAY OR NIGHT MODE), THE LATCHBOLT WILL IMMEDIATELY PROJECT AND THE OUTSIDE/INSIDE WALL ACTIVATION SWITCHES WILL IMMEDIATELY BECOME DISABLED, BUT THE THE SIGNAL TO THE AUTOMATIC DOOR OPERATOR TRIGGER INPUT WILL TERMINATE APPROXIMATELY ½, SEC. AFTER THE ALARM HAS ACTIVATED.

ARCHITECTURAL CONTROL SYSTI INCORPORATED ST. LOUIS, MISSOUI 1–800–783–5588	EMS, FRACTION ±1/64	**************************************	12/18/14 10/8/14 DATE	A RELEASED REV.	CRH CRH APPRV.
DESCRIPTION	DRAWING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/8/14
ACSI P/N 1420-DN	REF 6037-P2-3	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/8/14
ELR ACCESS CONTROL	REF 6037-F2-3		DO NOT	SCALE THIS D	RAWING



WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR DAY OPERATION (DRY CONTACTS CLOSED), THE LATCHBOLT WILL RETRACT. PUSHING THE OUTSIDE OR INSIDE WALL ACTIVATION SWITCH WILL ACTIVATE THE AUTOMATIC DOOR OPERATOR.

WHEN THE ACCESS CONTROL SYSTEM DAY/NIGHT SWITCHING OUTPUT IS SET FOR NIGHT OPERATION (DRY CONTACTS OPEN), THE LATCHBOLT WILL PROJECT AND BOTH THE OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES BECOME DISABLED. A VALID SWIPE FROM THE CARD READER WILL ONLY RETRACT THE LATCHBOLT. THE DOOR MUST BE PULLED OPEN MANUALLY FOR ENTRY OR PUSHED OPEN MANUALLY FOR EXITING.

IF THE 1420 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION OCCURRING WHILE IN DAY MODE WILL IMMEDIATELY PROJECT THE LATCHBOLT AND DISABLE USE OF THE OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES. IN NIGHT MODE WHEN A FIRE ALARM CONDITION OCCURS, THE LATCHBOLT WILL REMAIN PROJECTED. BY DEFAULT, BOTH OUTSIDE AND INSIDE WALL ACTIVATION SWITCHES ARE DISABLED IN NIGHT MODE.

NOTE: IF THE FIRE ALARM ACTIVATES DURING A "DOOR OPEN" CYCLE (DAY MODE ONLY), THE LATCHBOLT WILL IMMEDIATELY PROJECT AND THE OUTSIDE/NISIDE WALL ACTIVATION SWITCHES WILL IMMEDIATELY BECOME DISABLED, BUT THE SIGNAL TO THE AUTOMATIC DOOR OPERATOR TRIGGER INPUT WILL TERMINATE APPROXIMATELY X SEC. AFTER THE ALARM HAS ACTIVATED.

INCORPORATED ST. LOUIS, MISSOURI DECIMAL ± .006		S NOTED +.007 DRILL +.007 +.001 +.001 REAM000 +.004 PUNCH001	12/18/14 10/8/14 DATE	A RELEASED REV.	CRH CRH APPRV.
DESCRIPTION	DRAWING NO.	MATERIAL	SCALE AV	DRAWN BY CRH	DATE 10/8/14
ACSI P/N 1420-DN	REF 6037-P2-4	\sim	SHEET 1 OF 1	APPRV. BY CRH	DATE 10/8/14
ELR ACCESS CONTROL	REF 6037-F2-4		DO NOT	SCALE THIS D	RAWING