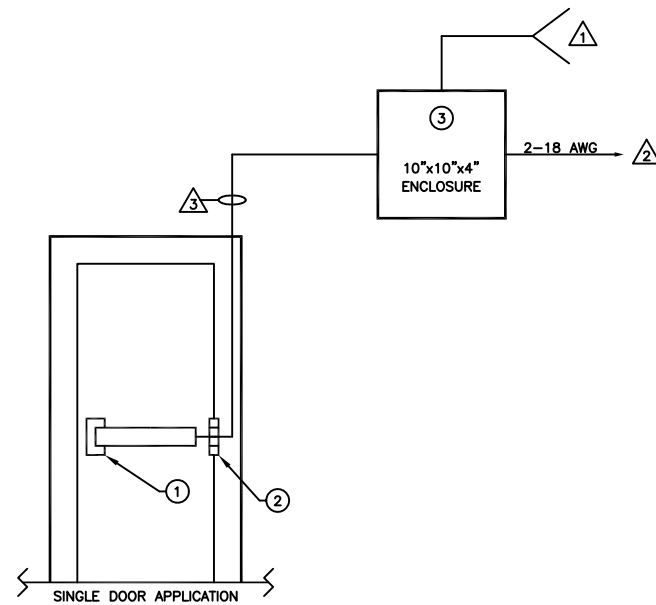
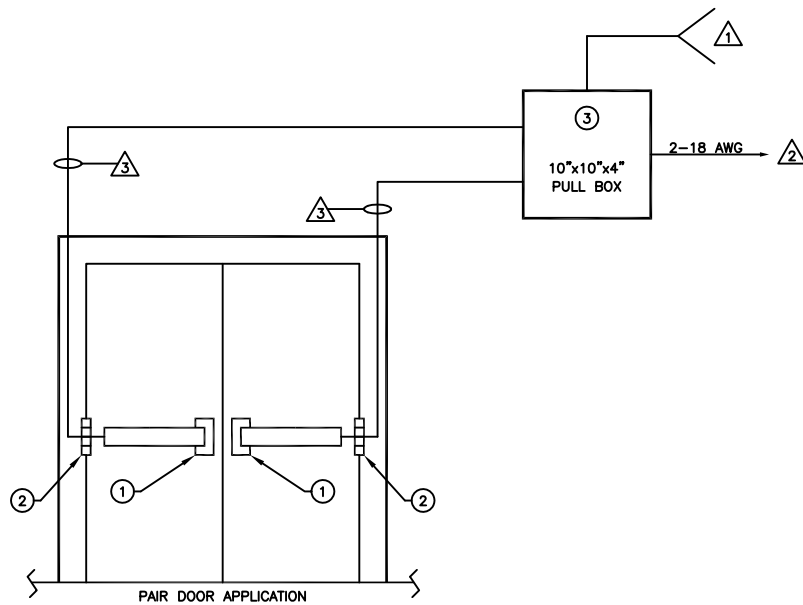




ACSI Series 1550K-MD and 1550-MD Motor Drive Electric Latch Retraction

**Riser and Point-to-Point Drawings for
Standard Access Control Applications
Using Maintained Latch Retraction Control or
Momentary Latch Retraction Control with
Field-Adjustable Time Delay**

**For Use with ACSI Part Numbers
1440 and 1440-TD**



ACSI SUPPLIED EQUIPMENT:


- ① SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELECTRIC LATCH RETRACTION
- ② SERIES 1100 POWER TRANSFER HINGE
- ③ 1440 POWER SUPPLY

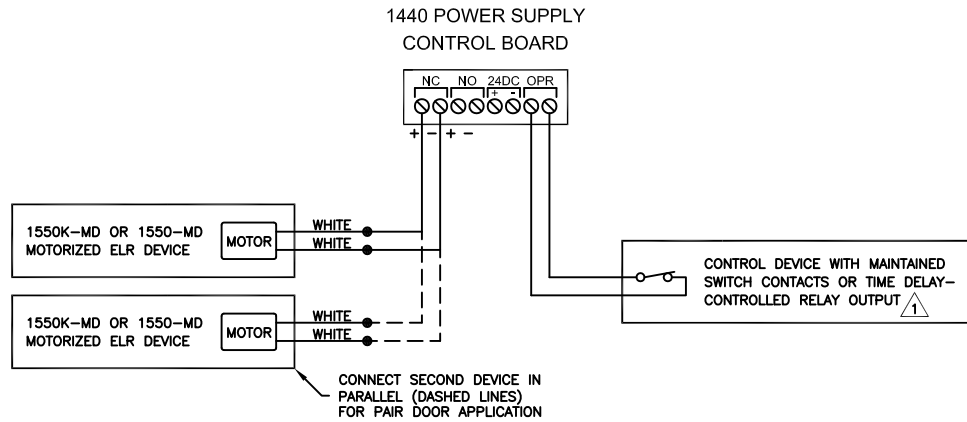
NOTES:

- 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 TO A CONTROL DEVICE USING MAINTAINED SWITCH CONTACTS (PUSHBUTTON SWITCH, KEY SWITCH) OR A CONTROL DEVICE RELAY OUTPUT EQUIPPED WITH BUILT-IN TIME DELAY (CARD READER, KEYPAD, MOTION SENSOR).
- ③ **WIRE GAUGE** **MAX. LENGTH 2-COND. CABLE**

| 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 ACCESS CONTROL WITH MAINTAINED ELECTRIC LATCH RETRACTION, OR MOMENTARY RETRACTION BY CONTROL DEVICES WITH BUILT-IN TIME DELAY, USING SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES


| | | | | | |
|---|--|--|----------------------------|--------------|--------------|
|  ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED ST. LOUIS, MISSOURI 1-800-753-5558 | TOLERANCES UNLESS NOTED FRACTION 1/16 DECIMAL ± .008 ANGULAR ±° | DRILL ±.007 REAM ±.001 PUNCH ±.004 | 2/10/15 | A | CRH |
| | | | 10/8/14 | RELEASED | CRH |
| DESCRIPTION | | | DATE | REV. | APPRV. |
| ACSI P/N 1440 ELR ACCESS CONTROL | | | SCALE 1/4" | DRAWN BY CRH | DATE 10/8/14 |
| DRAWING NO. | | | SHEET 1 of 1 | | |
| REF 6038-R1 | | | APPRV. BY CRH DATE 10/8/14 | | |
| DO NOT SCALE THIS DRAWING | | | | | |

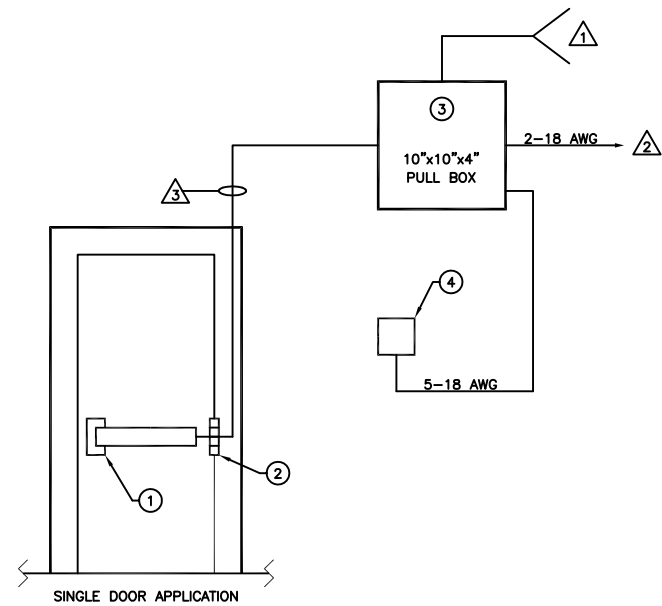
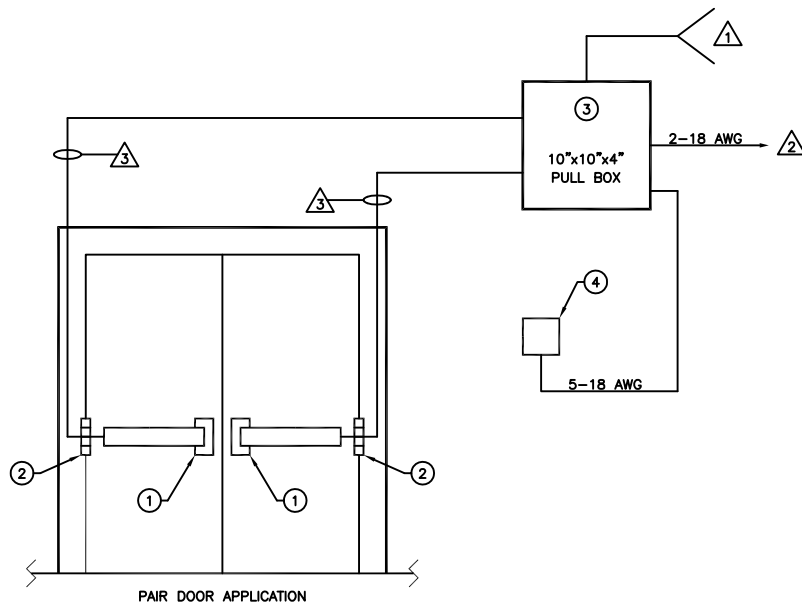


POINT-TO-POINT WIRING DIAGRAM
STANDARD ACCESS CONTROL WITH MAINTAINED ELECTRIC
LATCH RETRACTION, OR MOMENTARY RETRACTION BY
CONTROL DEVICES WITH BUILT-IN TIME DELAY, USING
SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES

NOTES:

1. LATCHBOLT IS PROJECTED WITH SWITCH IN CLOSED POSITION, AS SHOWN. OPENING SWITCH CONTACTS WILL RETRACT LATCHBOLT.
- 2.) IF THE 1440 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION WILL IMMEDIATELY PROJECT THE LATCHBOLT WHEN CURRENTLY RETRACTED.

| | | | | | |
|---|-------------------------|-------------|----------------|---------------|--------------|
|  ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED ST. LOUIS, MISSOURI 1-800-753-5558 | TOLERANCES UNLESS NOTED | | | | |
| | FRACTION 1/8" | DRILL -.001 | | | |
| | DECIMAL .008 | REAM -.001 | | | |
| | ANGULAR ±1° | PUNCH -.004 | | | |
| DESCRIPTION | DRAWING NO. | MATERIAL | DATE | REV. | APPRV. |
| ACSI P/N 1440 ELR ACCESS CONTROL | REF 6038-P1 | | 10/8/14 | RELEASED | CRH |
| | | | SCALE <i>N</i> | DRAWN BY CRH | DATE 10/8/14 |
| | | | SHEET 1 OF 1 | APPRV. BY CRH | DATE 10/8/14 |
| DO NOT SCALE THIS DRAWING | | | | | |



ACSI SUPPLIED EQUIPMENT:

- ① SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELECTRIC LATCH RETRACTION
- ② SERIES 1100 POWER TRANSFER HINGE
- ③ 1440 POWER SUPPLY
- ④ TM TIMER MODULE
NOTE: DO NOT LOCATE MORE THAN 10 FT. FROM POWER SUPPLY

② TO A MOMENTARY PUSHBUTTON OR KEY SWITCH FOR TIMED MOMENTARY DOOR CONTROL USING THE TM TIMER MODULE'S FIELD-ADJUSTABLE TIME DELAY.


| ③ 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 |

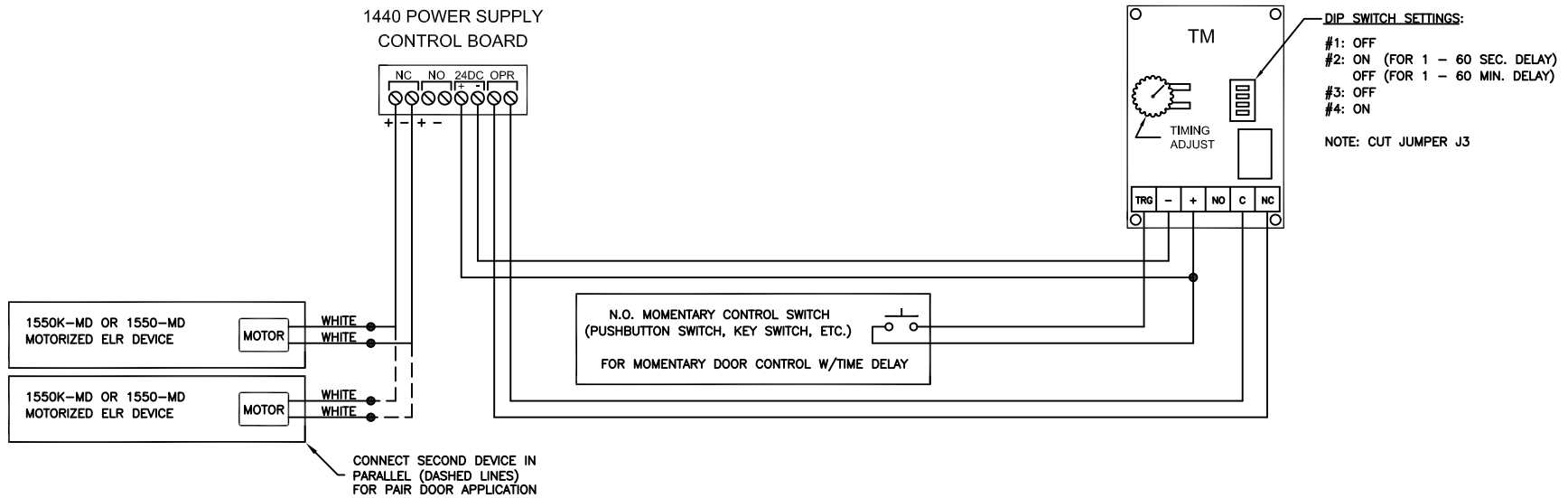
NOTES:

① TO 115V., 60HZ., 15A. SERVICE.

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

RISER DIAGRAM FOR STANDARD ACCESS CONTROL WITH FIELD-ADJUSTABLE TIME DELAY USING SERIES 1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES


| | | | | | | |
|---|---|----------|--|-----------|----------|--------|
|  ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED ST. LOUIS, MISSOURI 1-800-753-5558 | TOLERANCES UNLESS NOTED FRACTION ±1/64 DECIMAL ±.008 ANGULAR ±1° | | DRILL -.001 REAM -.001 PUNCH -.001 | 2/10/15 | B | CRH |
| | | | | 12/17/14 | A | CRH |
| | | | | 10/22/14 | RELEASED | CRH |
| | | | | DATE | REV. | APPRV. |
| DESCRIPTION | DRAWING NO. | MATERIAL | SCALE | DRAWN BY | DATE | |
| ACSI P/N 1440-TD ELR ACCESS CONTROL | REF 6038-R2 | | 1 of 1 | CRH | 10/22/14 | |
| | | | SHEET 1 of 1 | APPRV. BY | DATE | |
| | | | | CRH | 10/22/14 | |
| DO NOT SCALE THIS DRAWING | | | | | | |



POINT-TO-POINT WIRE DIAGRAM
STANDARD ACCESS CONTROL WITH
FIELD-ADJUSTABLE TIME DELAY USING SERIES
1550K-MD OR 1550-MD MOTOR DRIVE ELR DEVICES

NOTES:

- 1.) LATCHBOLT IS NORMALLY PROJECTED. A MOMENTARY CLOSURE OF SWITCH CONTACTS WILL RETRACT LATCHBOLT. THE DEVICE'S LATCHBOLT WILL REMAIN RETRACTED FOR THE PERIOD OF TIME AS DETERMINED BY THE SETTING OF THE ADJUSTMENT WHEEL ON THE TM TIMER MODULE AND THE TIME RANGE DIP SWITCH SETTING (SECONDS OR MINUTES). LATCHBOLT PROJECTS AFTER DELAY PERIOD TIMES OUT.
- 2.) IF THE 1440 POWER SUPPLY IS WIRED TO A FIRE ALARM CONTROL PANEL, AN ALARM CONDITION WILL IMMEDIATELY PROJECT THE LATCHBOLT WHEN CURRENTLY RETRACTED.

| | | | | | |
|---|----------------------------|---------------|---------------------|------------------|------------------|
|  ARCHITECTURAL CONTROL SYSTEMS, INCORPORATED ST. LOUIS, MISSOURI 1-800-753-5558 | TOLERANCES UNLESS NOTED | | 2/10/15 | B | CRH |
| | FRACTION $\pm 1/64$ | DRILL $-.001$ | 12/17/14 | A | CRH |
| | DECIMAL $\pm .008$ | REAM $-.002$ | 10/21/14 | RELEASED | CRH |
| | ANGULAR $\pm 1^\circ$ | PUNCH $-.004$ | DATE | REV. | APPRV. |
| DESCRIPTION ACSI P/N 1440-TD ELR ACCESS CONTROL | DRAWING NO. REF 6038-P2 | MATERIAL | SCALE $\frac{1}{1}$ | DRAWN BY CRH | DATE 10/21/14 |
| | | | SHEET 1 OF 1 | APPRV. BY CRH | DATE 10/21/14 |
| DO NOT SCALE THIS DRAWING | | | | | |