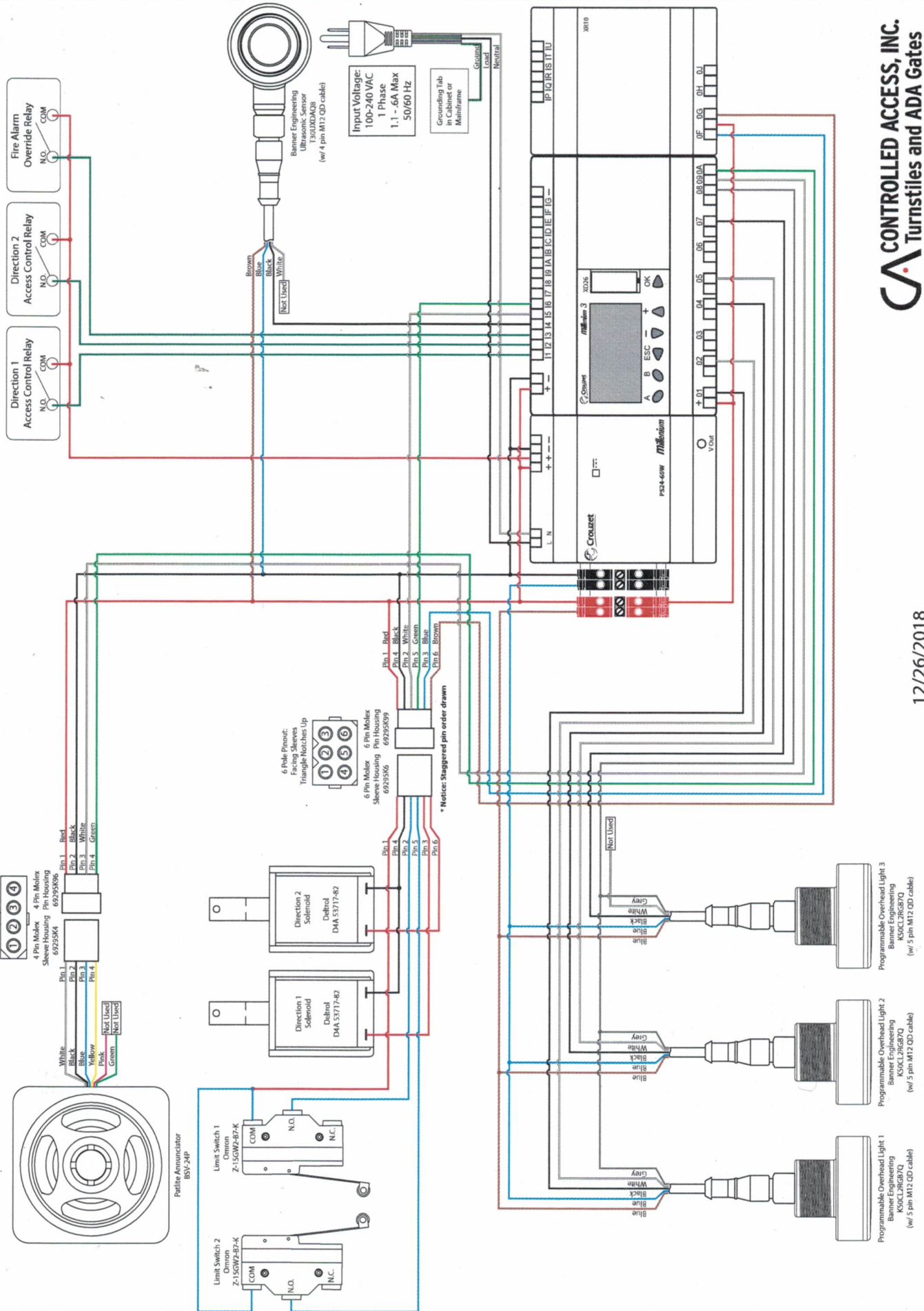
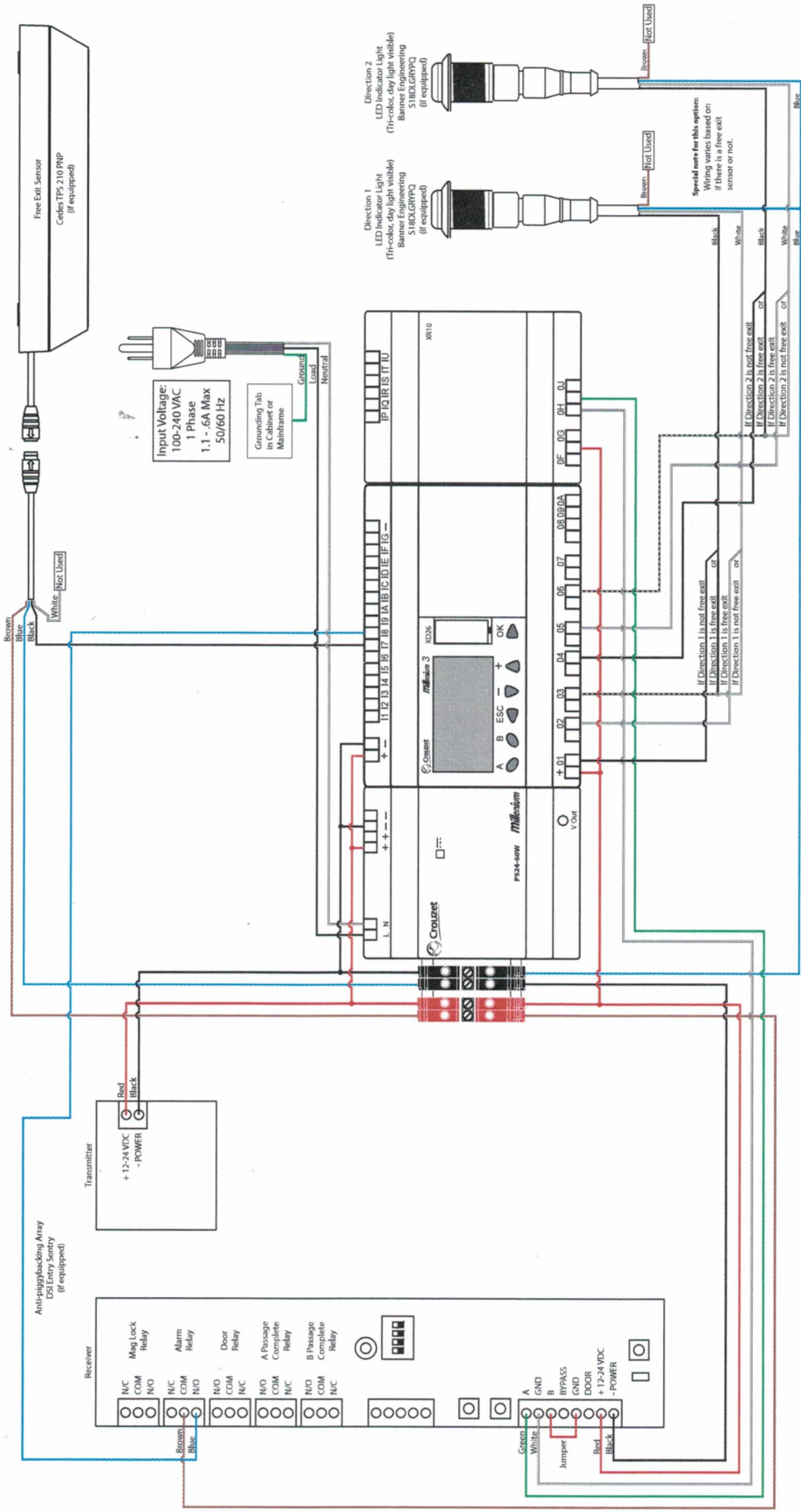


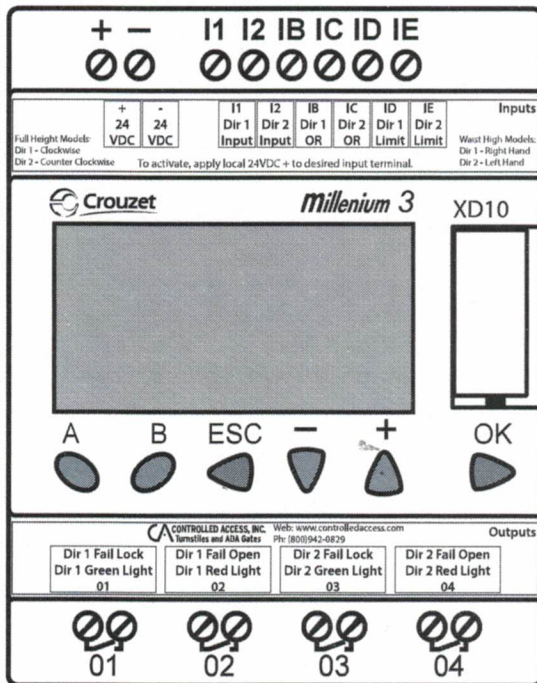
RD70 Wiring Diagram (Gen 3.)



RD70 Optional Components Wiring (Gen 3.)



6500 Series Control Head w/ XD10 Controller Standard Wiring Legend



General definitions:

Direction 1 - Clockwise on full height turnstiles or cabinet on right for waist high turnstiles & ADA gates.

Direction 2 - Counter clockwise on full height turnstiles or cabinet on left for waist high turnstiles & ADA gates.

Limit - A switch or sensor designed to detect rotation and lock the unit after a rotation.

Fail Lock - Upon power failure, the direction is designed to remain locked. Also known as Fail Secure.

Fail Open - Upon power failure, the direction is designed to remain opened. Also known as Fail Safe.

Each unit is built to order, preconfigured to function as specified at the time the order is placed. Some or all of the information listed may not be relevant to the installation.

Inputs are triggered with local 24VDC + (also known as PNP or sourcing).

Connect relay output from access control device to turnstile by terminating 24VDC + to relay common and the desired input to the relay's normally open terminal.

Be sure to disconnect power before wiring the board for safety.

Note: directional status outputs (lights) are unaffected by optional key overrides as the override occurs outside of the logic controller.

Input descriptions:

24VDC + Positive output from the 24VDC power supply connects here.

24VDC - Negative output from the 24VDC power supply connects here.

I1 - Direction 1 Input - Unlocks direction 1 for either one rotation or until the timer expires. Standard access control should terminate here.

I2 - Direction 2 Input - Unlocks direction 2 for either one rotation or until the timer expires. Standard access control should terminate here.

IB - Direction 1 Override - Holds direction 1 unlocked for duration of contact closure. Mainly for fire alarms and other temporary overrides.

IC - Direction 2 Override - Holds direction 2 unlocked for duration of contact closure. Mainly for fire alarms and other temporary overrides.

ID - Limit 1 Input - Cancels Direction 1 activation if triggered before timer expires, re-locking the unit after one rotation.

IE - Limit 2 Input - Cancels Direction 2 activation if triggered before timer expires, re-locking the unit after one rotation.

Output descriptions:

All 4 relay outputs have individual commons. 24VDC+ is distributed to each relay common to operate the turnstile. It is OK to add extra wires to these relay commons to distribute voltage to other devices.

01 - Output 1 - Dual purpose output for Direction 1. If the direction is fail lock, it's solenoid would connect here. If equipped with an indicator light, the green leg would connect here. Output switches from OFF to ON when directional input is triggered.

02 - Output 2 - Dual purpose output for Direction 1. If the direction is fail open, it's solenoid would connect here. If equipped with an indicator light, the red leg would connect here. Output switches from ON to OFF when directional input is triggered.

03 - Output 3 - Dual purpose output for Direction 2. If the direction is fail lock, it's solenoid would connect here. If equipped with an indicator light, the green leg would connect here. Output switches from OFF to ON when directional input is triggered.

04 - Output 4 - Dual purpose output for Direction 2. If the direction is fail open, it's solenoid would connect here. If equipped with an indicator light, the red leg would connect here. Output switches from ON to OFF when directional input is triggered.

Indicator light information:

Green Light - An indicator to inform pedestrians that they are allowed to pass through the unit. Uses black output wire from light's cable.

Red Light - An indicator to inform pedestrians that the unit is locked or that pedestrians require credentials to enter. Uses brown output wire from light's cable.

As a side note, indicator lights purchased from Controlled Access, Inc. can also be wired to glow **yellow**. If desired, this can be used instead of red with the unused white wire on the light's cable to indicate to pedestrians they require credentials to enter. This is especially handy for multi-lane installations in which some directions are "no passage" instead of "controlled passage". Likewise, green lights can also be wired to a red light output to constantly glow green to indicate "free passage".