Modifications to HMS Q3 Control Rack Wiring, HMS Shutter

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Ran 4 wire cable between Q3 rack and HMS door drive control box. Installed a relay to use the PLC to open the HMS shutter. Ran wires to get a read back on HMS shutter open limit switch. Relay names are awkward. Made to following modifications to rack wiring:

1. In shutter control box
   1. Connected pink wire to open switch (14)
   2. Connected pink wire to close switch (12)
   3. Ran wires to door drive control box
2. In door drive control box
   1. Installed new relay to remotely open shutter
      1. Open Shutter Relay
      2. Allen Bradley Cat# 700-HA33Z24
      3. 24 VDC coil
      4. Connected pink wire to pin 6 (COM)
      5. Connected pink wire to pin 7 (NO)
      6. Connected red wire from Q3 rack to pin 2
      7. Connected black wire from Q3 rack to pin 10
   2. Used exiting relay actuated by “shutter open” limit switch
      1. Shutter Open Relay
      2. 120 VAC
      3. Connected green wire from Q3 rack to pin 7 (NO)
      4. Connected clear wire from Q3 rack to pin 11 (COM)
3. At TS-PLC-02
   1. Connect 16-2 (red) to CB3 (24 VDC)
   2. Connect 16-3 (black) to TS-25 3-2
   3. Jumper 16-2 to 0-2
   4. Connect 0-2 to shutter is open relay pin 11 (clear)
   5. Connect 0-1 to shutter is open relay pin 7 (green)
4. At TS-PLC-04
   1. Connect 1-3 to open shutter relay pin 10 (black)
   2. Connect 0-2 to 1-2
   3. Connect 1-1 to open shutter relay pin 2 (red)

