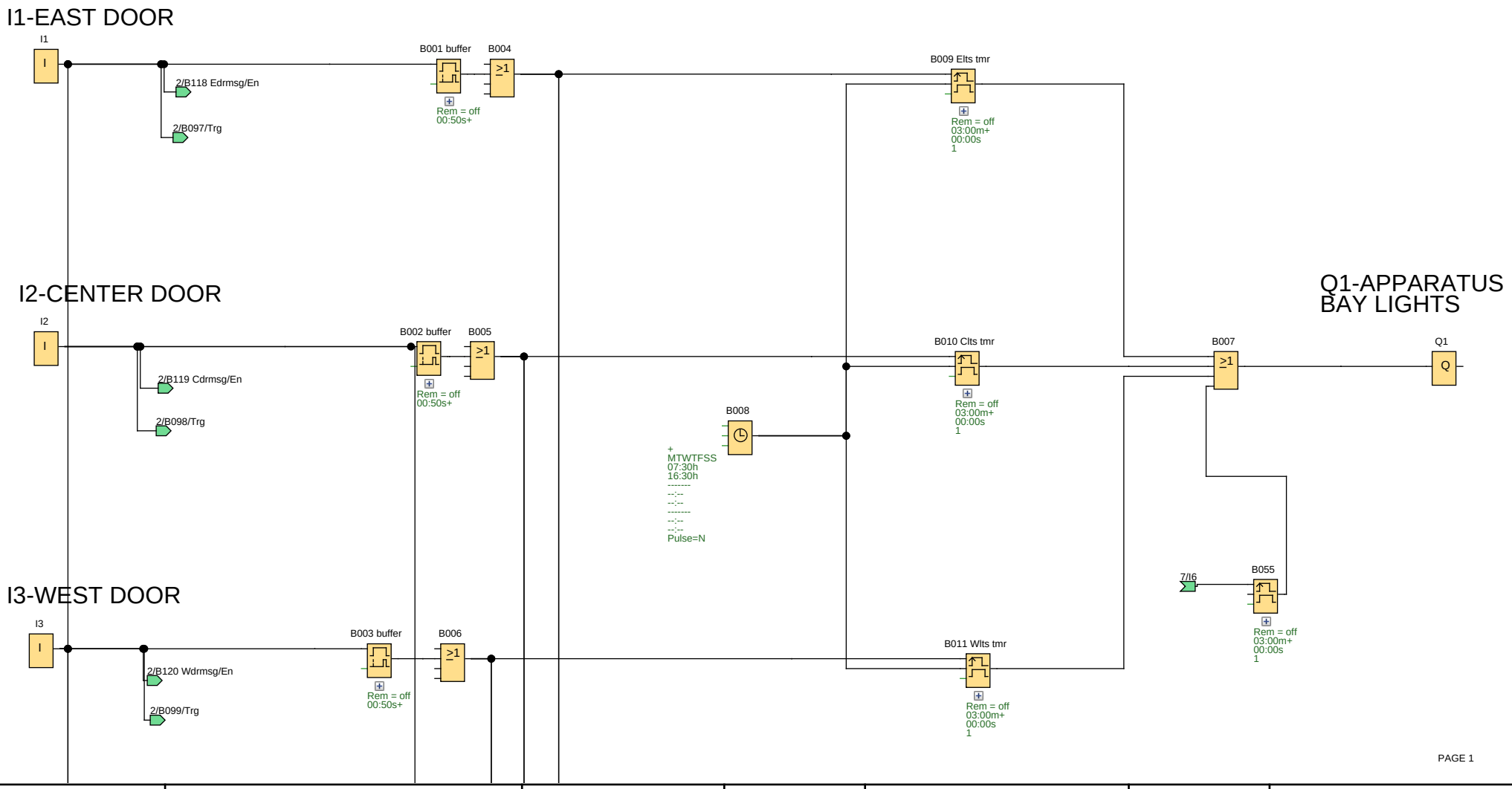
**Comment**

org 3-7-17 rev 8-8-18 cosmetic chnges only
9-16-20 redwn ld with counters for the first time ever, reset bckup lt to a  slower flash on pulse timer=at sta yes/ done
9-17-20 cosmo chngs
12/3/2020  Added  door open indicator lights located in kitchen
7-29-21 added a shot clock and seperate program outputs, counts read Edrcnt = 1029, Cdrcnt = 2793, Wdrcnt =4003, fancnt= 7053, fan hrs= 242 h 29 m, redwnlded prgrm and all counts to zero

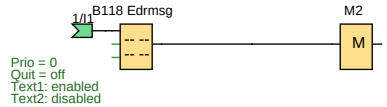
# Station 9 Doors 7-29-21 used Wind LGC 8.2
type F Smart FS-05 type ( network, but no ethernet cable yet)
IP address 192.168.20.9

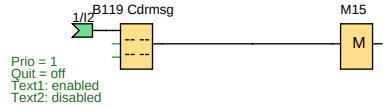
## *Door section, app. bay lts*

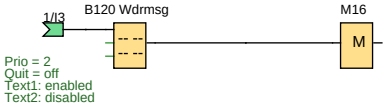



| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 2 / 19 |

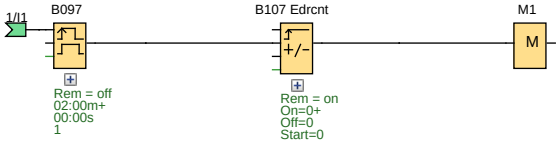
# MESSAGE SECTIONS

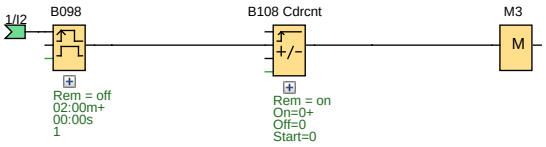


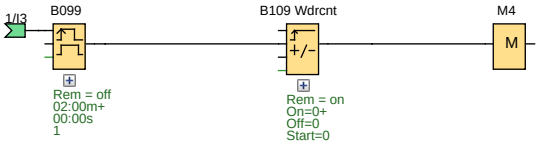




# COUNTING SECTIONS



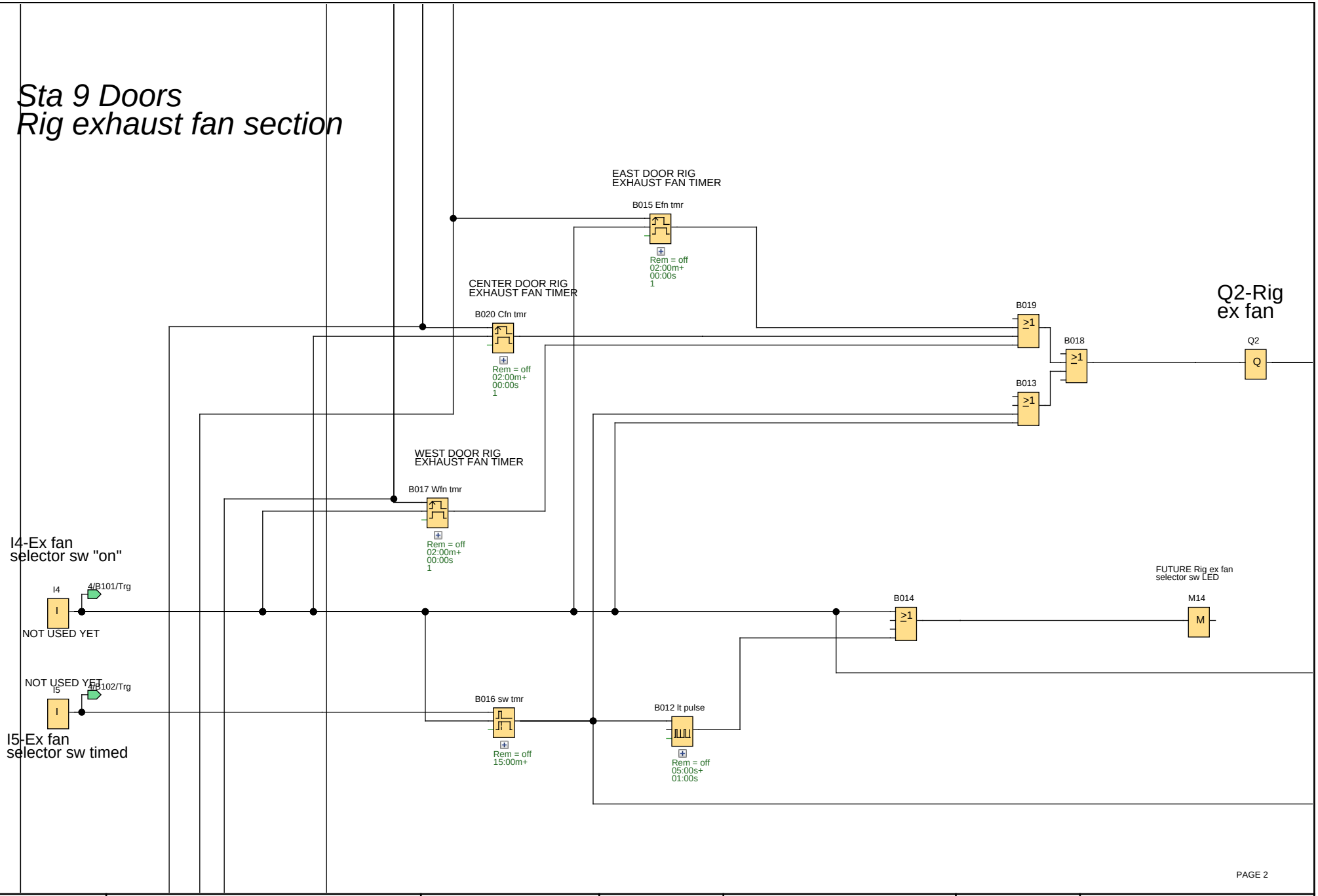






| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 3 / 19 |

# *Sta 9 Doors*
# *Rig exhaust fan section*

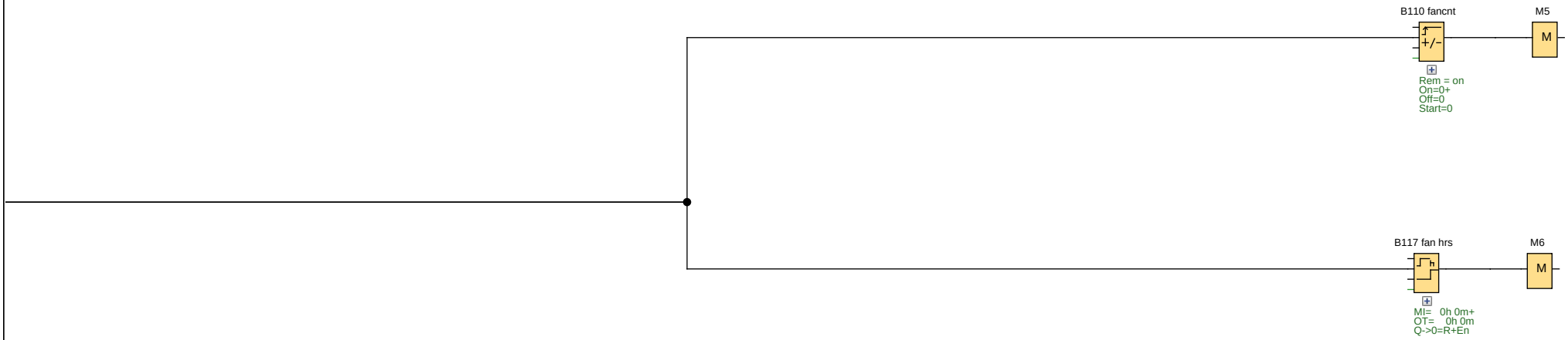



PAGE 2

| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 4 / 19 |

## Sta 9

# COUNTING SECTIONS

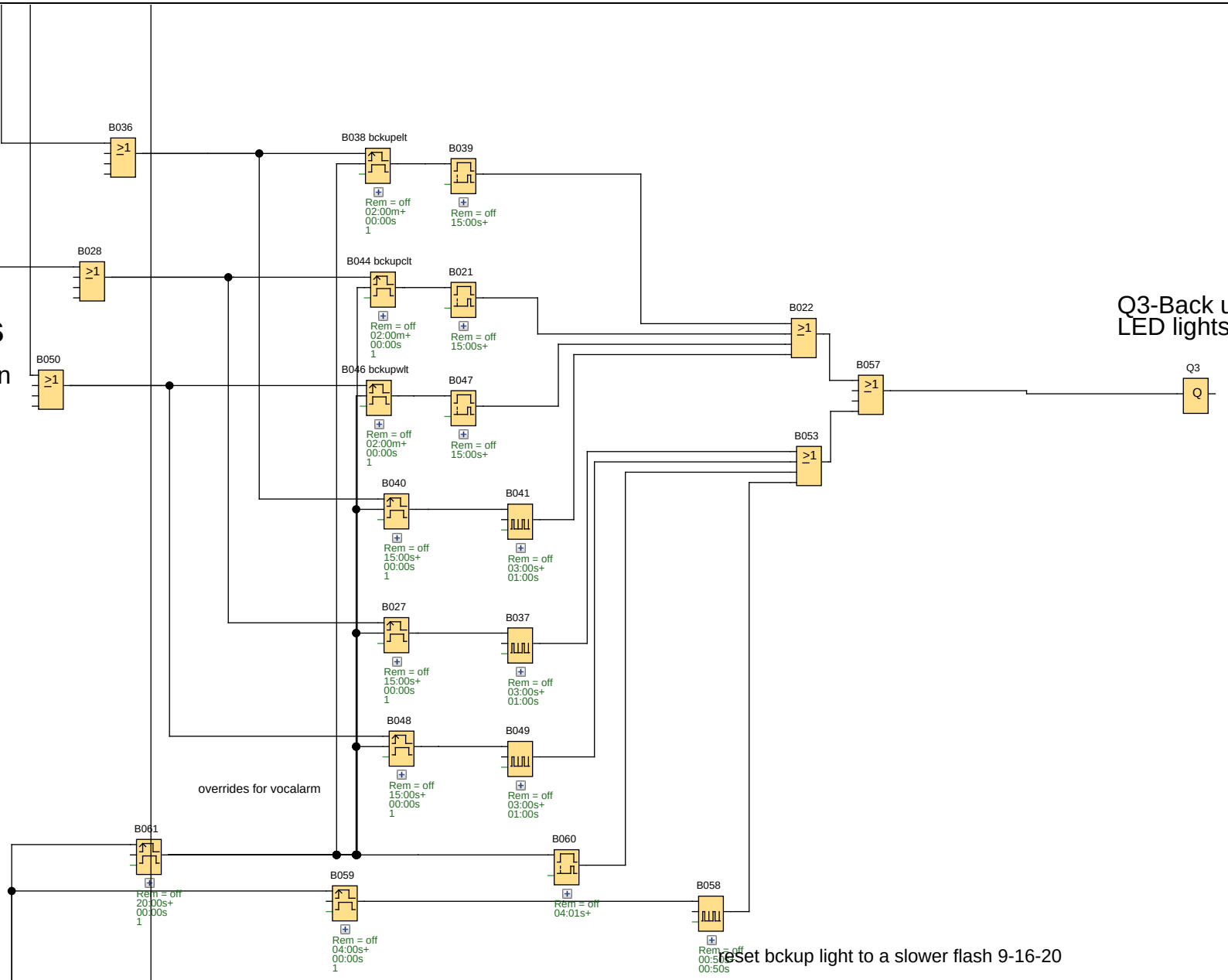



# MESSAGE SECTIONS

| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 5 / 19 |

# Station 9 Doors

Back up LED light section




Q3-Back up
LED lights

reset bckup light to a slower flash 9-16-20



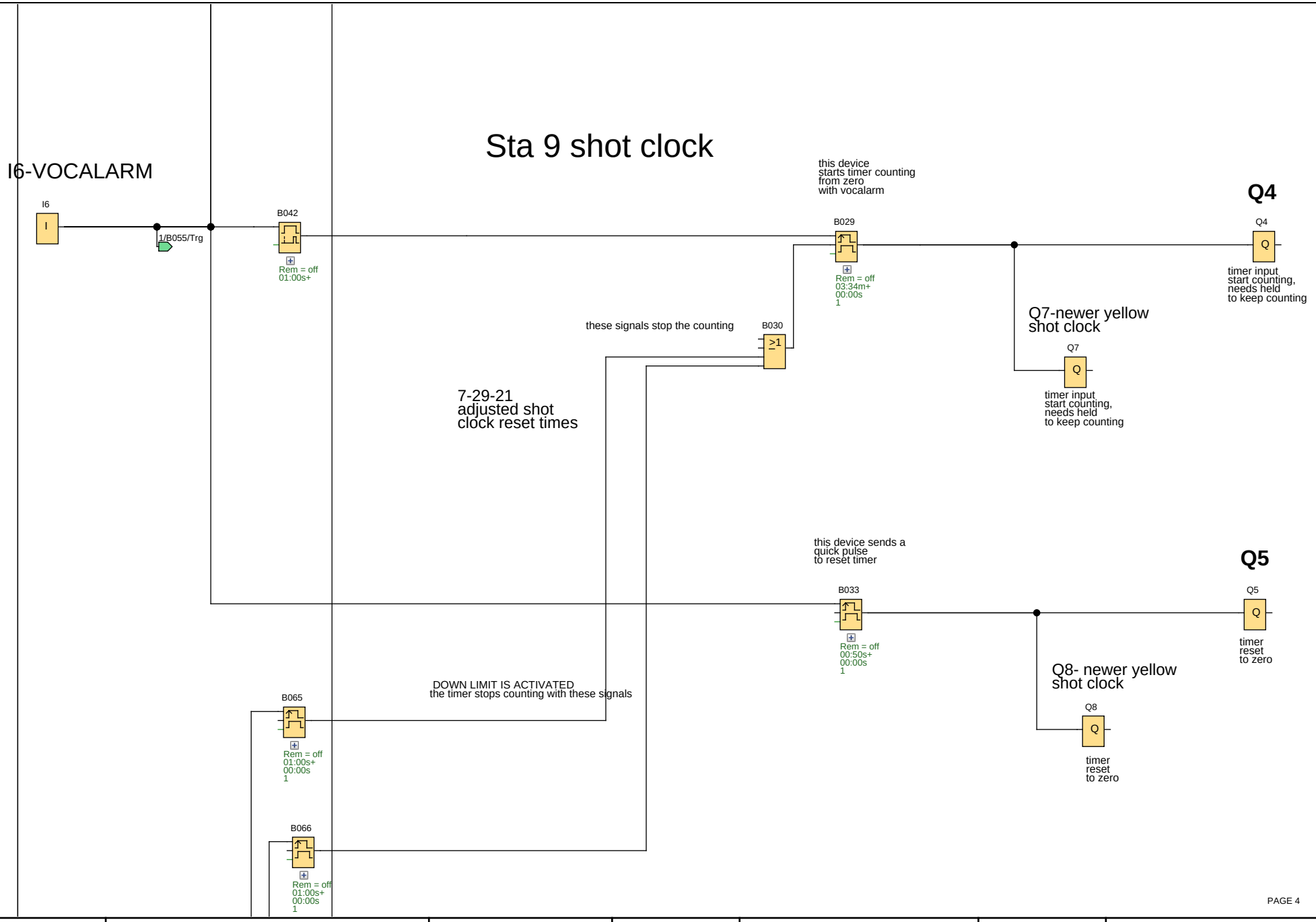
| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 6 / 19 |

# Sta 9



| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 7 / 19 |

# Sta 9 shot clock





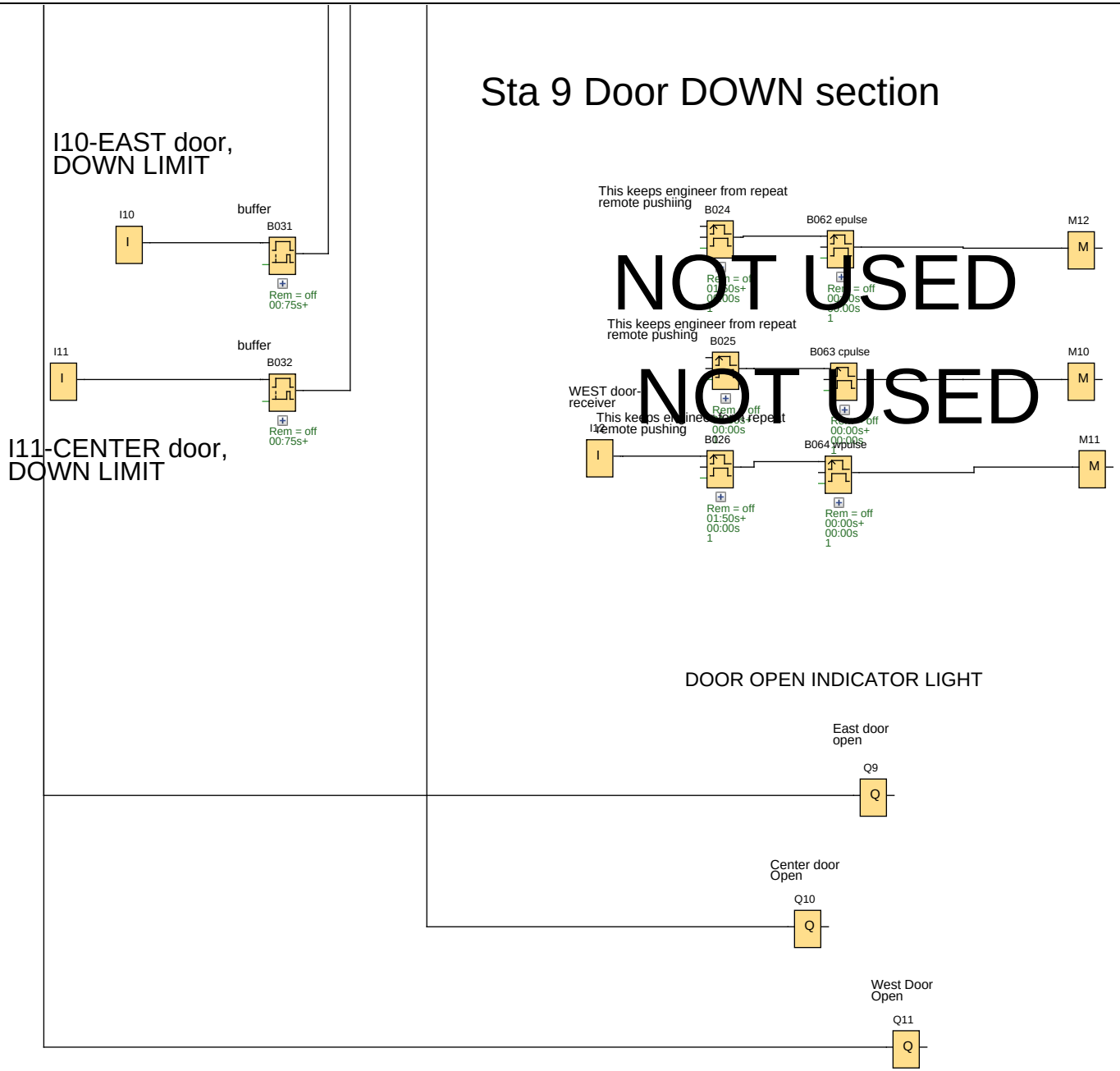

| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 8 / 19 |

# Sta 9



| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 9 / 19 |

# Sta 9 Door DOWN section






| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 10 / 19 |

# Sta 9



| | | | | | | |
|---|---|---|---|---|---|---|
| Creator: | John Ledbetter | DFD Lineshop | Project: | Sta 9 doors | Customer: | Denver Fire Department |
| Checked: | 7-29-21 | | Installation: | Sta 9 doors | Diagram No.: | 6 |
| Date: | 9/12/16 9:56 AM/6/10/22 8:44 AM | | File: | Sta 9 drs 7-29-21.lsc | Page: | 11 / 19 |

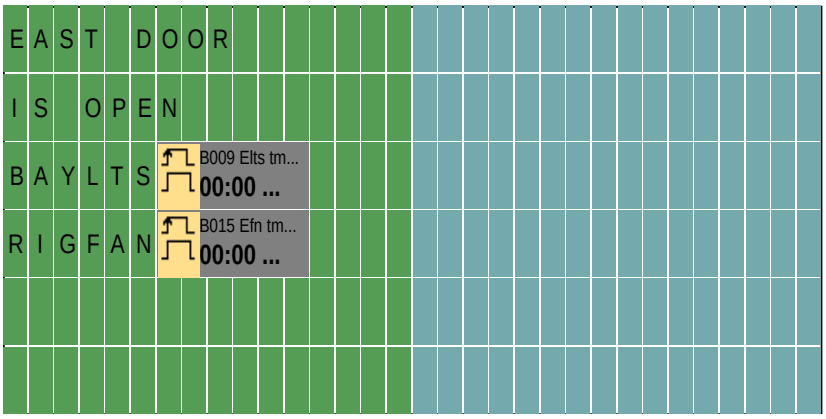
| Block Number (Type) | Parameter |
|---|---|
| B001 buffer(On-delay) : | Rem = off<br>00:50s+ |
| B002 buffer(On-delay) : | Rem = off<br>00:50s+ |
| B003 buffer(On-delay) : | Rem = off<br>00:50s+ |
| B008(Seven-day time switch) : | +<br>MTWTFSS<br>07:30h<br>16:30h<br>-------<br>--:--<br>--:--<br>-------<br>--:--<br>--:--<br>Pulse=N |
| B009 Elts tmr(Edge-triggered interval time-delay relay) : | Rem = off<br>03:00m+<br>00:00s<br>1 |
| B010 Clts tmr(Edge-triggered interval time-delay relay) : | Rem = off<br>03:00m+<br>00:00s<br>1 |
| B011 Wlts tmr(Edge-triggered interval time-delay relay) : | Rem = off<br>03:00m+<br>00:00s<br>1 |
| B012 lt pulse(Asynchronous pulse generator) : | Rem = off<br>05:00s+<br>01:00s |
| B015 Efn tmr(Edge-triggered interval time-delay relay) :<br>EAST DOOR RIG<br>EXHAUST FAN TIMER | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B016 sw tmr (Off-delay) : | Rem = off<br>15:00m+ |
| B017 Wfn tmr(Edge-triggered interval time-delay relay) :<br>WEST DOOR RIG<br>EXHAUST FAN TIMER | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B020 Cfn tmr(Edge-triggered interval time-delay relay) :<br>CENTER DOOR RIG<br>EXHAUST FAN TIMER | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B021(On-delay) : | Rem = off<br>15:00s+ |
| B024(Edge-triggered interval time-delay relay) :<br>This keeps engineer from repeat<br>remote pushiing | Rem = off<br>01:50s+<br>00:00s<br>1 |
| B025(Edge-triggered interval time-delay relay) :<br>This keeps engineer from repeat<br>remote pushing | Rem = off<br>01:50s+<br>00:00s<br>1 |
| B026(Edge-triggered interval time-delay relay) :<br>This keeps engineer form repeat<br>remote pushing | Rem = off<br>01:50s+<br>00:00s<br>1 |
| B027(Edge-triggered interval time-delay relay) : | Rem = off<br>15:00s+<br>00:00s<br>1 |
| B029(Edge-triggered interval time-delay relay) :<br>this device<br>starts timer counting<br>from zero<br>with vocalarm | Rem = off<br>03:34m+<br>00:00s<br>1 |

| Block Number (Type) | Parameter |
|---|---|
| B031(On-delay) :<br>buffer | Rem = off<br>00:75s+ |
| B032(On-delay) :<br>buffer | Rem = off<br>00:75s+ |
| B033(Edge-triggered interval time-delay relay) :<br>this device sends a<br>quick pulse<br>to reset timer | Rem = off<br>00:50s+<br>00:00s<br>1 |
| B037(Asynchronous pulse generator) : | Rem = off<br>03:00s+<br>01:00s |
| B038 bckupelt(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B039(On-delay) : | Rem = off<br>15:00s+ |
| B040(Edge-triggered interval time-delay relay) : | Rem = off<br>15:00s+<br>00:00s<br>1 |
| B041(Asynchronous pulse generator) : | Rem = off<br>03:00s+<br>01:00s |
| B042(On-delay) : | Rem = off<br>01:00s+ |
| B044 bckupclt(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B046 bckupwlt(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B047(On-delay) : | Rem = off<br>15:00s+ |
| B048(Edge-triggered interval time-delay relay) : | Rem = off<br>15:00s+<br>00:00s<br>1 |
| B049(Asynchronous pulse generator) : | Rem = off<br>03:00s+<br>01:00s |
| B055(Edge-triggered interval time-delay relay) : | Rem = off<br>03:00m+<br>00:00s<br>1 |
| B058(Asynchronous pulse generator) : | Rem = off<br>00:50s+<br>00:50s |
| B059(Edge-triggered interval time-delay relay) : | Rem = off<br>04:00s+<br>00:00s<br>1 |
| B060(On-delay) : | Rem = off<br>04:01s+ |
| B061(Edge-triggered interval time-delay relay) : | Rem = off<br>20:00s+<br>00:00s<br>1 |
| B062 epulse(Edge-triggered interval time-delay relay) : | Rem = off<br>00:00s+<br>00:00s<br>1 |

| Block Number (Type) | Parameter |
|---|---|
| B063 cpulse(Edge-triggered interval time-delay relay) : | Rem = off<br>00:00s+<br>00:00s<br>1 |
| B064 wpulse(Edge-triggered interval time-delay relay) : | Rem = off<br>00:00s+<br>00:00s<br>1 |
| B065(Edge-triggered interval time-delay relay) : | Rem = off<br>01:00s+<br>00:00s<br>1 |
| B066(Edge-triggered interval time-delay relay) : | Rem = off<br>01:00s+<br>00:00s<br>1 |
| B097(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B098(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B099(Edge-triggered interval time-delay relay) : | Rem = off<br>02:00m+<br>00:00s<br>1 |
| B101(Edge-triggered interval time-delay relay) : | Rem = off<br>10:00s+<br>00:00s<br>1 |
| B102(Edge-triggered interval time-delay relay) : | Rem = off<br>10:00s+<br>00:00s<br>1 |
| B107 Edrcnt(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B108 Cdrcnt(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B109 Wdrcnt(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B110 fancnt(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B111 onswcnt(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B112 fnswtmr(Up/Down counter) : | Rem = on<br>On=0+<br>Off=0<br>Start=0 |
| B117 fan hrs(Operating hours counter ) : | MI= 0h 0m+<br>OT= 0h 0m<br>Q->0=R+En |

| Block Number (Type) | Parameter |
|---|---|

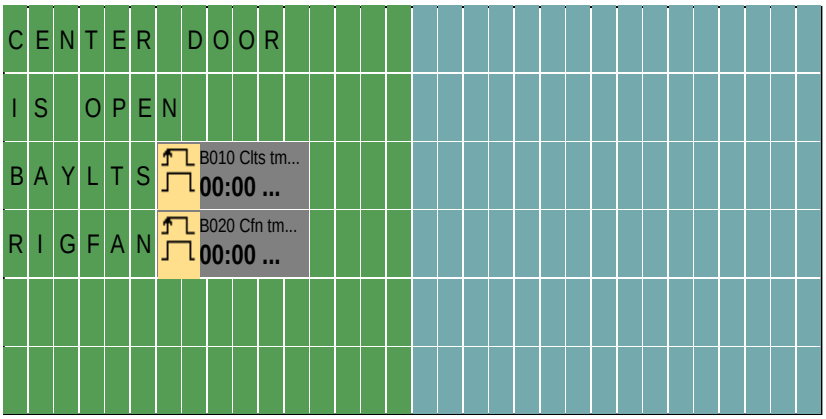
B118 Edrmsg(Message texts) :




-->
Prio = 0
Quit = off
Text1: enabled
Text2: disabled
Ticker setting
- CBC
- Line1: N
- Line2: N
- Line3: N
- Line4: N
- Line5: N
- Line6: N
Message Destination
- Both

Line3.7 B009 Elts tmr-THRest
Line4.7 B015 Efn tmr-THRest

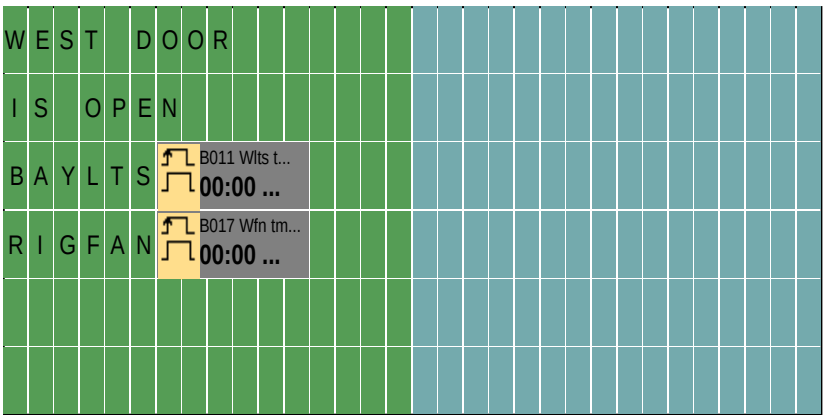
B119 Cdrmsg(Message texts) :




-->
Prio = 1
Quit = off
Text1: enabled
Text2: disabled
Ticker setting
- CBC
- Line1: N
- Line2: N
- Line3: N
- Line4: N
- Line5: N
- Line6: N
Message Destination
- Both

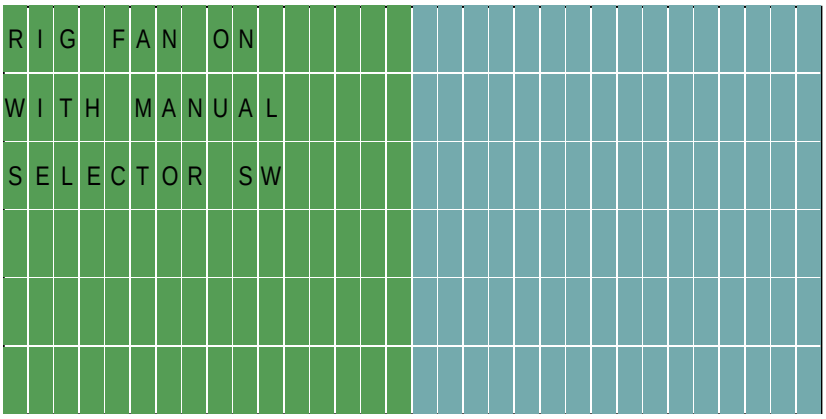
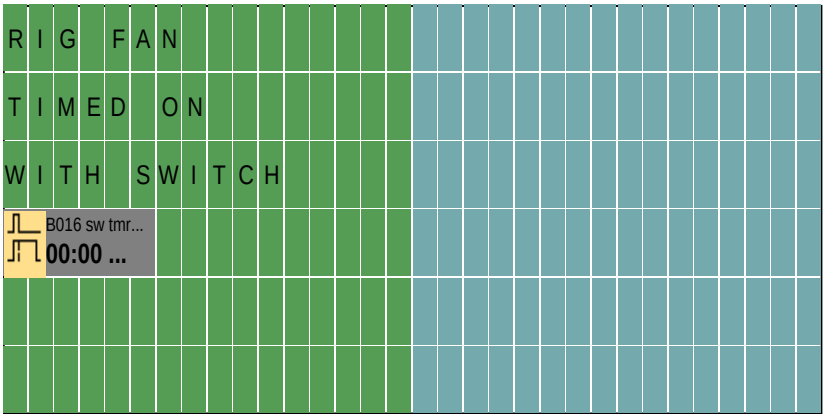
Line3.7 B010 Clts tmr-THRest
Line4.7 B020 Cfn tmr-THRest

B120 Wdrmsg(Message texts) :




-->
Prio = 2
Quit = off
Text1: enabled
Text2: disabled
Ticker setting
- CBC
- Line1: N
- Line2: N
- Line3: N
- Line4: N
- Line5: N
- Line6: N
Message Destination
- Both

Line3.7 B011 Wlts tmr-THRest
Line4.7 B017 Wfn tmr-THRest

| Block Number (Type) | Parameter |
|---|---|
| B121(Message texts) :<br>  <br> | Prio = 3<br>Quit = off<br>Text1: enabled<br>Text2: disabled<br>--> Ticker setting<br>- CBC<br>- Line1: N<br>- Line2: N<br>- Line3: N<br>- Line4: N<br>- Line5: N<br>- Line6: N<br>Message Destination<br>- Both |
| B122(Message texts) :<br>  <br><br>Line4.1 B016 sw tmr -TRest | Prio = 4<br>Quit = off<br>Text1: enabled<br>Text2: disabled<br>--> Ticker setting<br>- CBC<br>- Line1: N<br>- Line2: N<br>- Line3: N<br>- Line4: N<br>- Line5: N<br>- Line6: N<br>Message Destination<br>- Both |
| I1(Input) :<br>I1-EAST DOOR | |
| I2(Input) :<br>I2-CENTER DOOR | |
| I3(Input) :<br>I3-WEST DOOR | |
| I4(Input) :<br>I4-Ex fan<br>selector sw "on" | |
| I5(Input) :<br>I5-Ex fan<br>selector sw timed | |
| I6(Input) :<br>I6-VOCALARM | |
| I10(Input) :<br>I10-EAST door,<br>DOWN LIMIT | |
| I11(Input) :<br>I11-CENTER door,<br>DOWN LIMIT | |
| I12(Input) :<br>WEST door-<br>receiver | |

| Block Number (Type) | Parameter |
|---|---|
| Q1(Output) :<br>Q1-APPARATUS<br>BAY LIGHTS | |
| Q2(Output) :<br>Q2-Rig<br>ex fan | |
| Q3(Output) :<br>Q3-Back up<br>LED lights | |
| Q4(Output) :<br>timer input<br>start counting,<br>needs held<br>to keep counting | |
| Q5(Output) :<br>timer<br>reset<br>to zero | |
| Q7(Output) :<br>Q7-newer yellow<br>shot clock | |
| Q8(Output) :<br>Q8- newer yellow<br>shot clock | |
| Q9(Output) :<br>East door<br>open | |
| Q10(Output) :<br>Center door<br>Open | |
| Q11(Output) :<br>West Door<br>Open | |

| Connection | Label |
|---|---|
| I1 | |
| I2 | |
| I3 | |
| I4 | |
| I5 | |
| I6 | |
| I10 | |
| I11 | |
| I12 | |
| M1 | |
| M2 | |
| M3 | |
| M4 | |
| M5 | |
| M6 | |
| M7 | |
| M9 | |
| M10 | |
| M11 | |
| M12 | |
| M14 | |
| M15 | |
| M16 | |
| M17 | |
| M18 | |
| Q1 | |
| Q2 | |
| Q3 | |
| Q4 | |

| Connection | Label |
|---|---|
| Q5 | |
| Q7 | |
| Q8 | |
| Q9 | |
| Q10 | |
| Q11 | |