Comment

8-10-18 REV W CNTRS ETC COSMO ONLY
10-27-20 Smart relay at the station 21 changed the flasher on B58 to .50s .50 s to save relay, done.
also installed a MOV, done, read 25 volts on power, MOV cool to touch
3-30-22 counters read Wdr cnt 4873, Edr cnt 1036, exfancnt 5809, exfanhrs 199h 59m, fansw on 0, fn tmrsw 95, wremcnt 8107, eremcnt 93, all counts to zero, city address installed, MOV yes, slo bckuplt yes, type FS-05 verified
3-31-22 added astro clock, redwnlded and again all counts to zero

Module Address

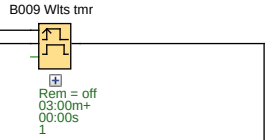
IP Address	10.126.163.213
Subnet Mask:	255.255.255.240
Default gateway	10.126.163.209

Station 21 Doors 3-31-22 type FS-05 verified

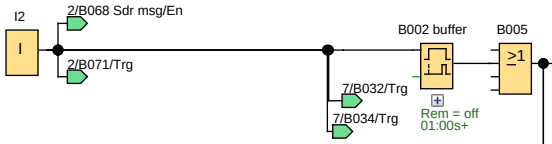
City IP address
10.126.163.213
255.255.255.240
10.126.136.209

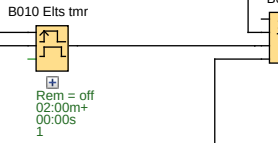
App. bay lights section

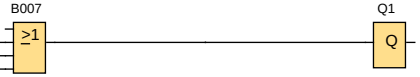
I1-WEST DOOR

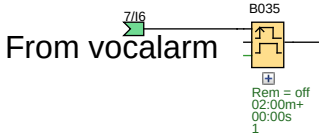


I2-EAST DOOR







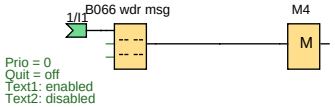


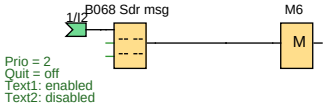
Q1-APPARATUS BAY LIGHTS

Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	3 / 19

Sta 21

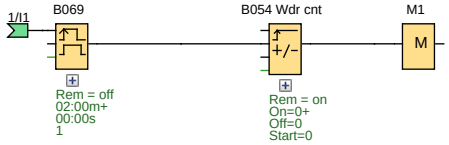
MESSAGE SECTION



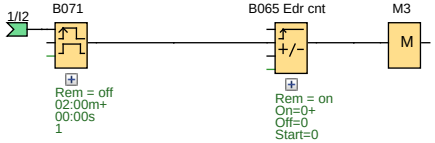


Counting sections

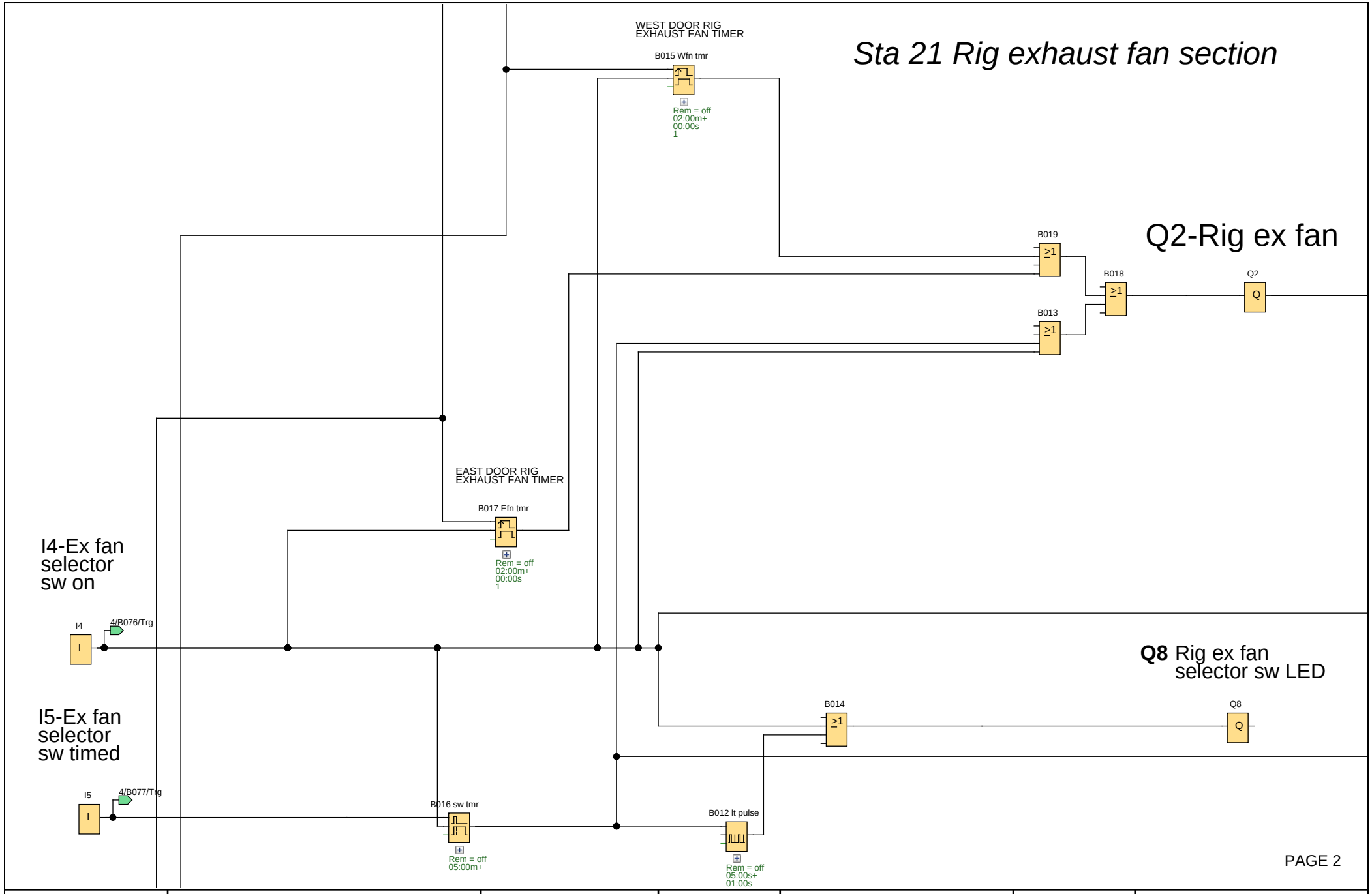
West door open counter



East door open counter



Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	4 / 19

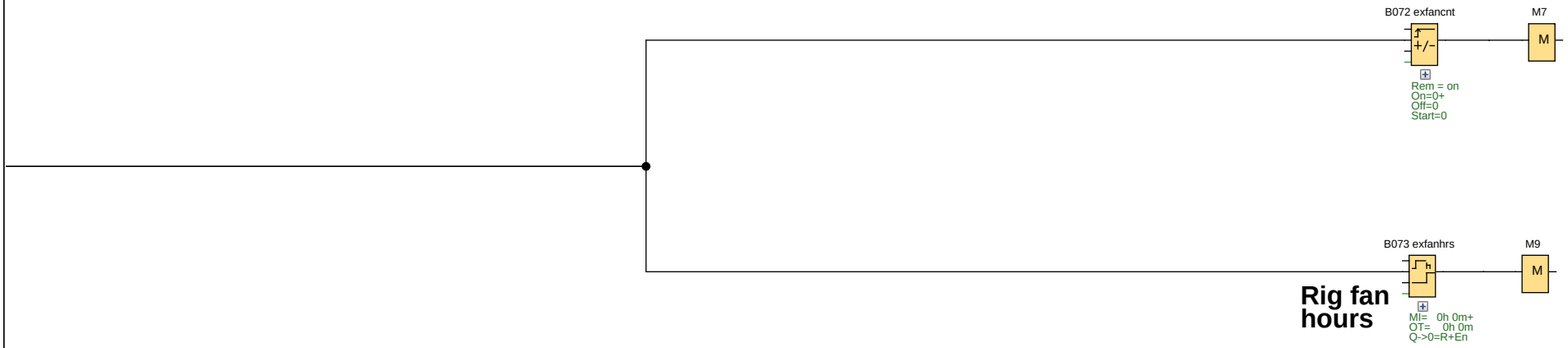


Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	5 / 19

Sta 21

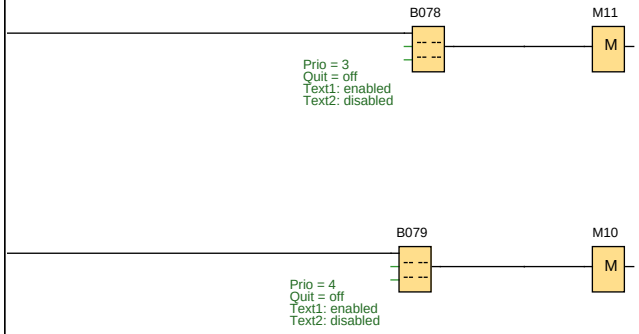
Counting sections

Rig fan "ON" count

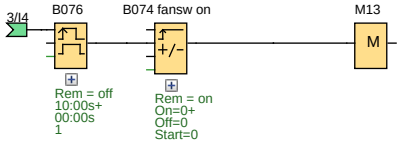


Rig fan hours

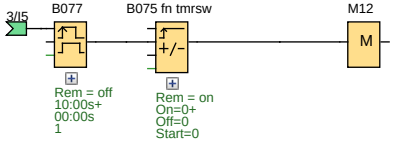
Message sections



Fan switch "ON" timer

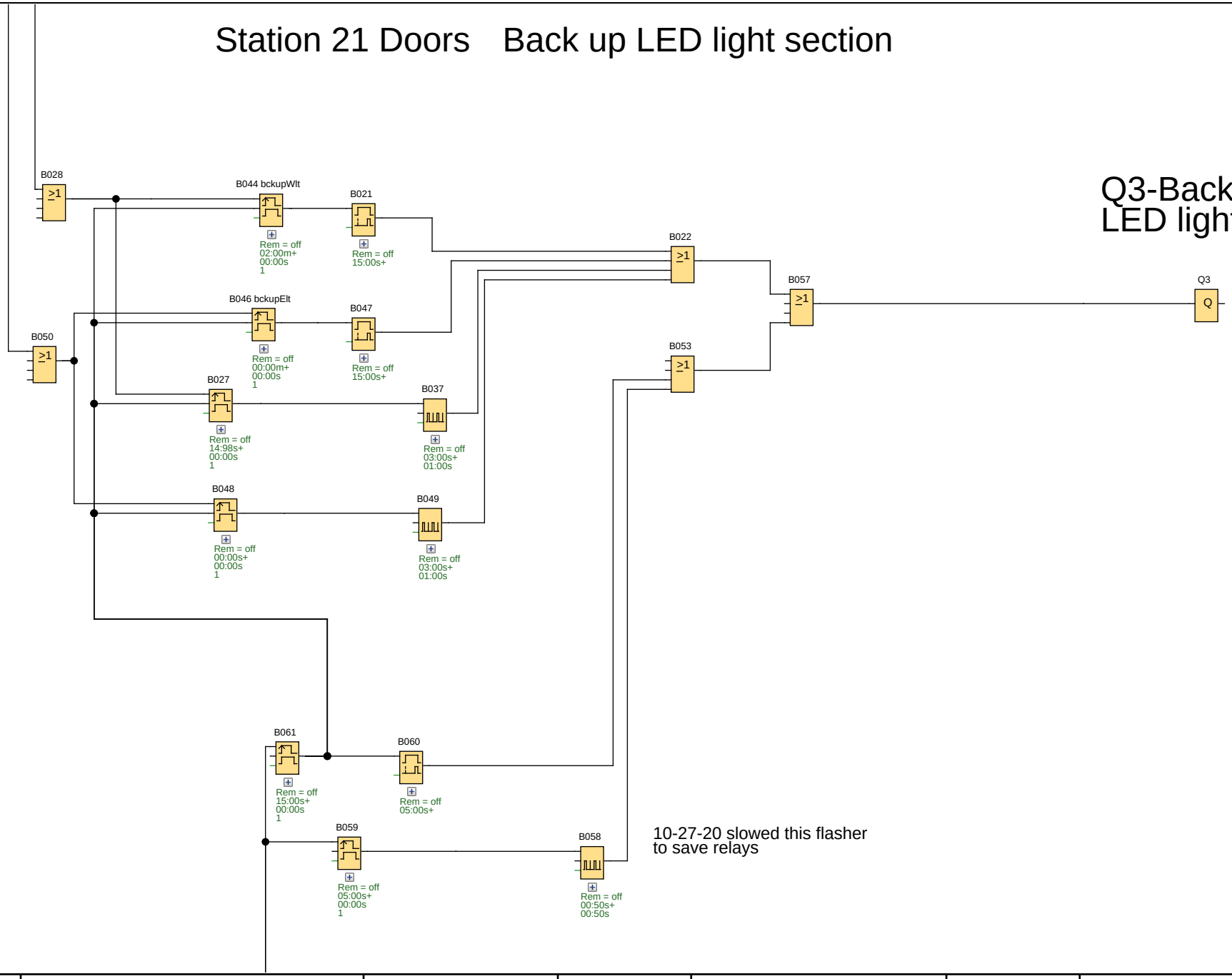


Fan timed switch counter



Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	6 / 19

Station 21 Doors Back up LED light section



Q3-Backup
LED lights

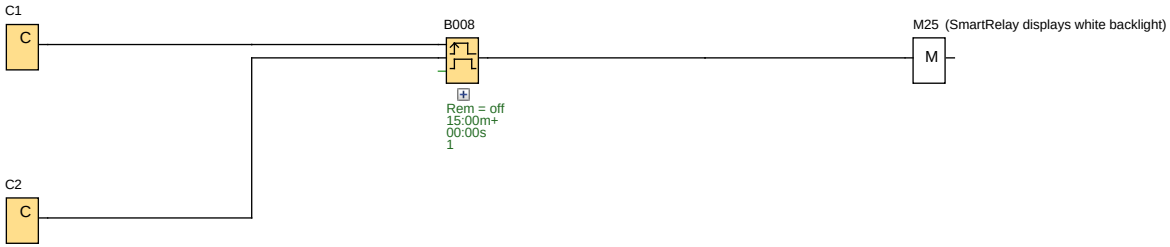
10-27-20 slowed this flasher
to save relays

PAGE 3

Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	7 / 19

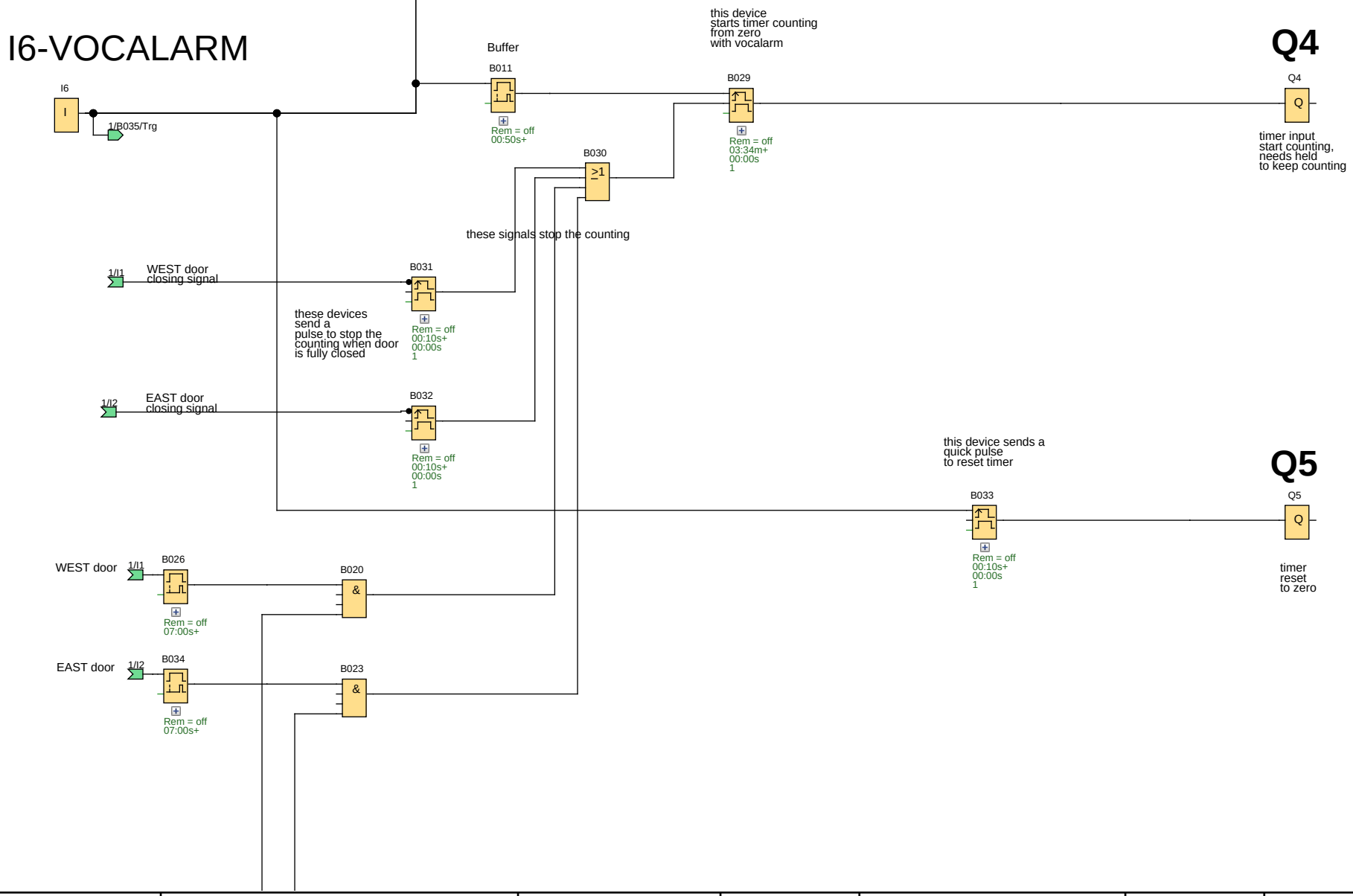
Sta 21

Smart dislay brightener



Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	8 / 19

Sta 21 Shot Clock



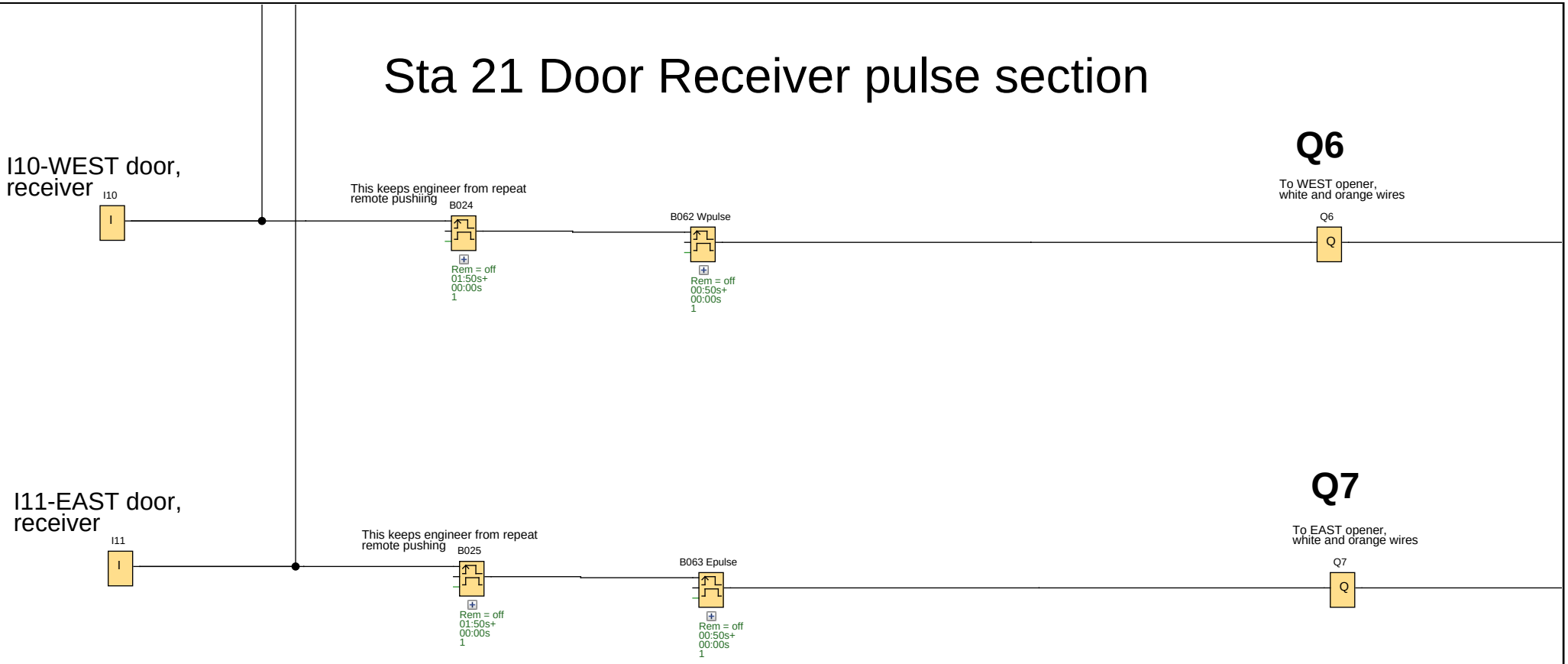
PAGE 4

Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	9 / 19

Sta 21

Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	10 / 19

Sta 21 Door Receiver pulse section



Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	11 / 19

Sta 21

Counting sections

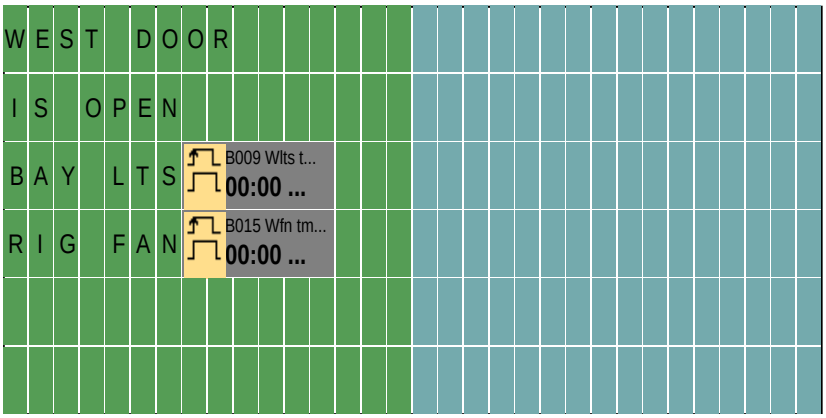
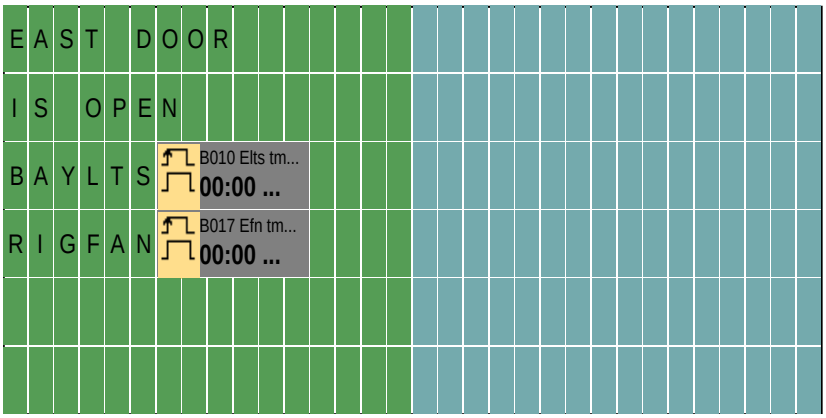
West door remote use counter

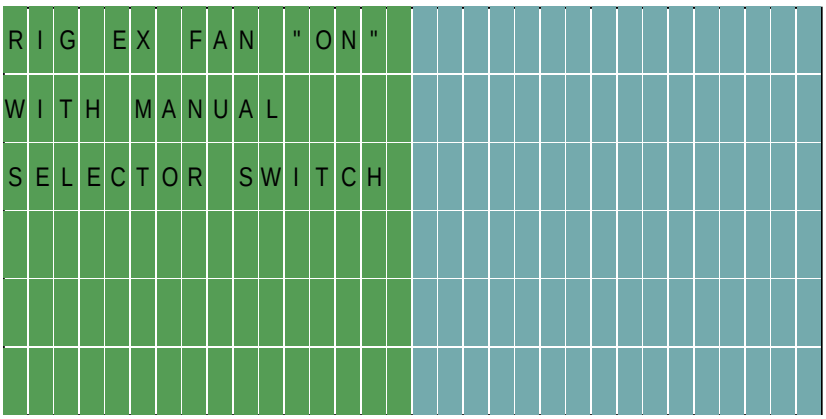
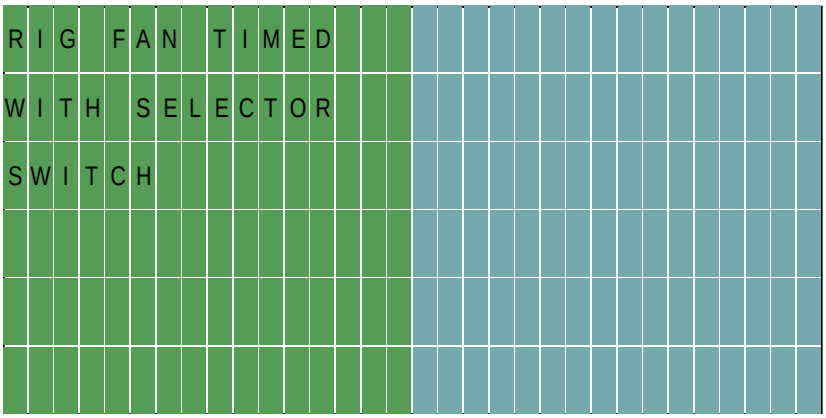
East door remote use counter

Creator:	AM, jbl	Denver Fire Lineshop	Project:	Station 21 doors	Customer:	Denver Fire Department
Checked:	3-31-22		Installation:	Doors	Diagram No.:	1
Date:	2/18/16 7:10 AM/6/10/22 9:09 AM		File:	Sta 21 drs 3-31-22.lsc	Page:	12 / 19

Block Number (Type)	Parameter
B001 buffer(On-delay) :	Rem = off 01:00s+
B002 buffer(On-delay) :	Rem = off 01:00s+
B008(Edge-triggered interval time-delay relay) :	Rem = off 15:00m+ 00:00s 1
B009 Wlts tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B010 Elts tmr(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B011(On-delay) :	Rem = off 00:50s+
B012 lt pulse(Asynchronous pulse generator) :	Rem = off 05:00s+ 01:00s
B015 Wfn tmr(Edge-triggered interval time-delay relay) : WEST DOOR RIG EXHAUST FAN TIMER	Rem = off 02:00m+ 00:00s 1
B016 sw tmr (Off-delay) :	Rem = off 05:00m+
B017 Efn tmr(Edge-triggered interval time-delay relay) : EAST DOOR RIG EXHAUST FAN TIMER	Rem = off 02:00m+ 00:00s 1
B021(On-delay) :	Rem = off 15:00s+
B024(Edge-triggered interval time-delay relay) : This keeps engineer from repeat remote pushiing	Rem = off 01:50s+ 00:00s 1
B025(Edge-triggered interval time-delay relay) : This keeps engineer from repeat remote pushing	Rem = off 01:50s+ 00:00s 1
B026(On-delay) : WEST door	Rem = off 07:00s+
B027(Edge-triggered interval time-delay relay) :	Rem = off 14:98s+ 00:00s 1
B029(Edge-triggered interval time-delay relay) : this device starts timer counting from zero with vocalarm	Rem = off 03:34m+ 00:00s 1
B031(Edge-triggered interval time-delay relay) : these devices send a pulse to stop the counting when door is fully closed	Rem = off 00:10s+ 00:00s 1
B032(Edge-triggered interval time-delay relay) :	Rem = off 00:10s+ 00:00s 1
B033(Edge-triggered interval time-delay relay) : this device sends a quick pulse to reset timer	Rem = off 00:10s+ 00:00s 1
B034(On-delay) : EAST door	Rem = off 07:00s+

Block Number (Type)	Parameter
B035(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B036(Astronomical clock) :	Lot: W104°58'9"+ Lat: N39°42'26" TZ: -7 Sunrise offset: 20 Sunset offset: -20
B037(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B044 bckupWlt(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B046 bckupElt(Edge-triggered interval time-delay relay) :	Rem = off 00:00m+ 00:00s 1
B047(On-delay) :	Rem = off 15:00s+
B048(Edge-triggered interval time-delay relay) :	Rem = off 00:00s+ 00:00s 1
B049(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B054 Wdr cnt(Up/Down counter) : West door open counter	Rem = on On=0+ Off=0 Start=0
B058(Asynchronous pulse generator) :	Rem = off 00:50s+ 00:50s
B059(Edge-triggered interval time-delay relay) :	Rem = off 05:00s+ 00:00s 1
B060(On-delay) :	Rem = off 05:00s+
B061(Edge-triggered interval time-delay relay) :	Rem = off 15:00s+ 00:00s 1
B062 Wpulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
B063 Epulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
B065 Edr cnt(Up/Down counter) : East door open counter	Rem = on On=0+ Off=0 Start=0

Block Number (Type)	Parameter
B066 wdr msg(Message texts) :  Line3.8 B009 Wlts tmr-THRest Line4.8 B015 Wfn tmr-THRest	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
B068 Sdr msg(Message texts) :  Line3.7 B010 Elts tmr-THRest Line4.7 B017 Efn tmr-THRest	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
B069(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B071(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B072 exfancnt(Up/Down counter) : Rig fan "ON" count	Rem = on On=0+ Off=0 Start=0
B073 exfanhrs(Operating hours counter) : Rig fan hours	MI= 0h 0m+ OT= 0h 0m Q->0=R+En
B074 fansw on(Up/Down counter) : Fan switch "ON" timer	Rem = on On=0+ Off=0 Start=0
B075 fn tmrsw(Up/Down counter) : Fan timed switch counter	Rem = on On=0+ Off=0 Start=0
B076(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1

Block Number (Type)	Parameter
B077(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1
B078(Message texts) :  	Prio = 3 Quit = off Text1: enabled Text2: disabled --> Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both
B079(Message texts) :  	Prio = 4 Quit = off Text1: enabled Text2: disabled --> Ticker setting - CBC - Line1: N - Line2: N - Line3: N - Line4: N - Line5: N - Line6: N Message Destination - Both
B080 wremcnt(Up/Down counter) : West door remote use counter	Rem = on On=0+ Off=0 Start=0
B082 eremcnt(Up/Down counter) : East door remote use counter	Rem = on On=0+ Off=0 Start=0
I1(Input) : I1-WEST DOOR	
I2(Input) : I2-EAST DOOR	
I4(Input) : I4-Ex fan selector sw on	
I5(Input) : I5-Ex fan selector sw timed	
I6(Input) : I6-VOCALARM	

Block Number (Type)	Parameter
I10(Input) : I10-WEST door, receiver	
I11(Input) : I11-EAST door, receiver	
Q1(Output) : Q1-APPARATUS BAY LIGHTS	
Q2(Output) : Q2-Rig ex fan	
Q3(Output) : Q3-Backup LED lights	
Q4(Output) : timer input start counting, needs held to keep counting	
Q5(Output) : timer reset to zero	
Q6(Output) : To WEST opener, white and orange wires	
Q7(Output) : To EAST opener, white and orange wires	

Connection	Label
C1	
C2	
I1	
I2	
I4	
I5	
I6	
I10	
I11	
M1	
M3	
M4	
M6	
M7	
M9	
M10	
M11	
M12	
M13	
M15	
M17	
M25	SmartRelay displays white backlight
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Q7	

Connection	Label
Q8	