

**Comment**

REV 8-16-18 COSMO  
4-25-22 installed new Smart relay type FS-03, installed city IP address, online tests good, installed counters 1st time, MOV installed yes, soled flash yes, card is in yes

Creator:	John Ledbetter	Denver Fire Lineshop	Project:	Station 29 doors	Customer:	Denver Fire Department
Checked:	4-25-22		Installation:	Door Project	Diagram No.:	2
Date:	2/18/16 7:10 AM/6/10/22 9:21 AM		File:	Sta 29 drs 4-25-22.lsc	Page:	1 / 18

## Module Address

IP Address 10.126.164.149  
Subnet Mask: 255.255.255.240  
Default gateway 10.126.164.145

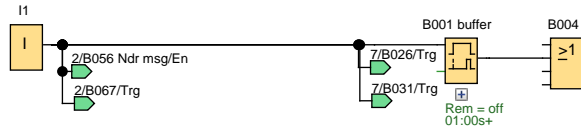
Creator:	John Ledbetter	Denver Fire Lineshop	Project:	Station 29 doors	Customer:	Denver Fire Department
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# Station 29 Doors 4-25-22 Wind LGC 6.3 version 8 type FS-03 verified

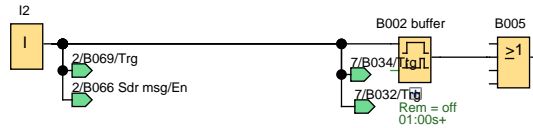
City IP address  
10.126.164.149  
255.255.255.240  
10.126.164.145

## App. bay lights section

### I1-NORTH DOOR



### I2-SOUTH DOOR



Let: W104°45'18"+  
Lat: N39°46'59"  
TZ: -7  
Sunrise offset: 20  
Sunset offset: -20



B009 Nlts tmr

Rem = off  
03:00m+  
00:00s  
1

### Q1-APPARATUS BAY LIGHTS

B010 Slts tmr

Rem = off  
03:00m+  
00:00s  
1

B007

B035

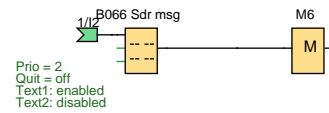
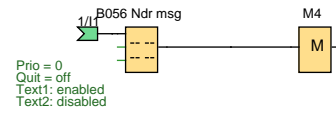
Rem = off  
02:00m+  
00:00s  
1

Q1

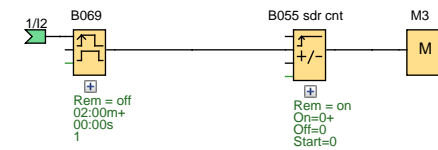
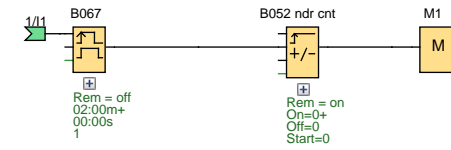
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# Sta 29

## MESSAGE SECTION

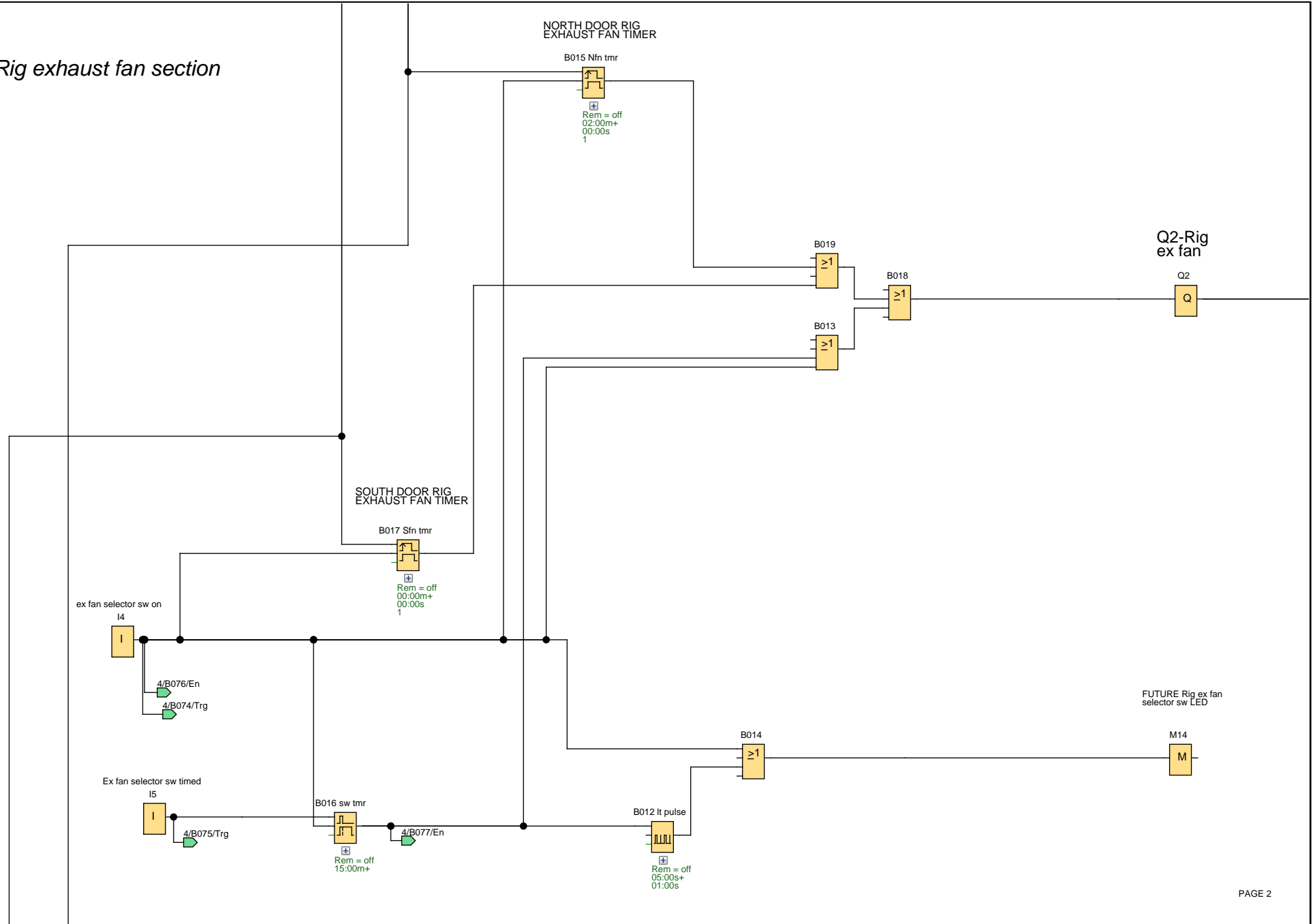


## Counting sections



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Sta 29 Rig exhaust fan section

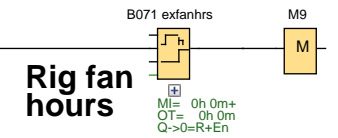
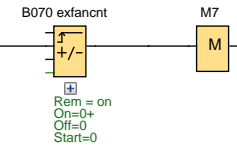


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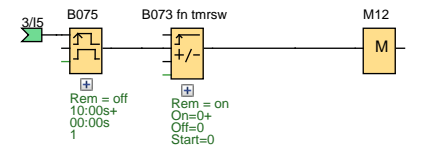
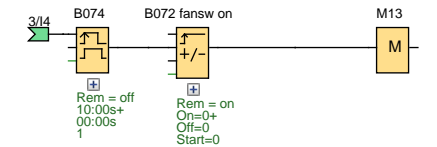
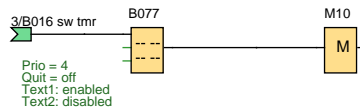
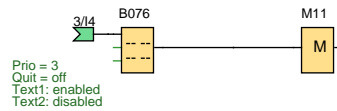
# Sta 29

## Counting sections

### Rig fan "ON" count



## Message sections

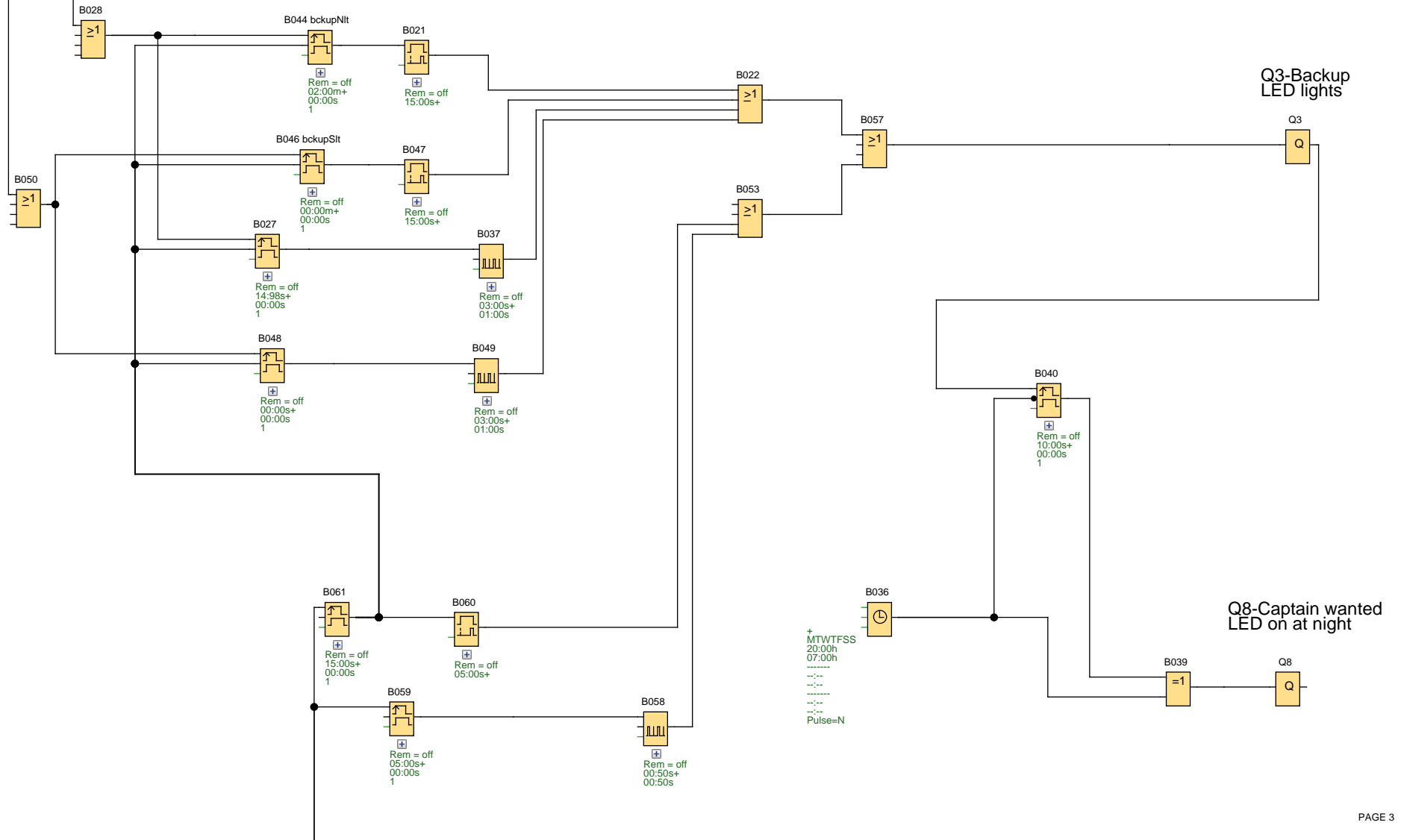


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# Station 29 Doors

## Back up LED light section

Sta 29 only has one backup LED



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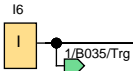
# Sta 29

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# Sta 29 TIMER DISPLAY

I6-VOCALARM



1/B035/Trg

Buffer



Rem = off  
00:50s+

this device starts timer counting from zero with vocalarm



Rem = off  
03:34m+  
00:00s  
1

Q4



timer input start counting, needs held to keep counting



these signals stop the counting

1/1 NORTH door closing signal



Rem = off  
00:10s+  
00:00s  
1

these devices send a pulse to stop the counting when door is fully closed

1/2 SOUTH door closing signal



Rem = off  
00:10s+  
00:00s  
1

this device sends a quick pulse to reset timer



Rem = off  
00:10s+  
00:00s  
1

Q5



timer reset to zero

North door 1/1



Rem = off  
07:00s+



South door 1/2



Rem = off  
07:00s+



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# Sta 29 Door Receiver pulse section

I10-NORTH door, receiver



This keeps engineer from repeat remote pushing



Rem = off  
01:50s+  
00:00s  
1



Rem = off  
00:50s+  
00:00s  
1

Q6

To north opener white and orange



I11-SOUTH door, receiver



This keeps engineer from repeat remote pushing



Rem = off  
01:50s+  
00:00s  
1



Rem = off  
00:50s+  
00:00s  
1

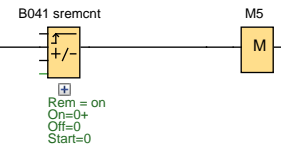
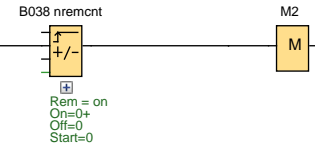
Q7

To south opener white and orange



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# Sta 29

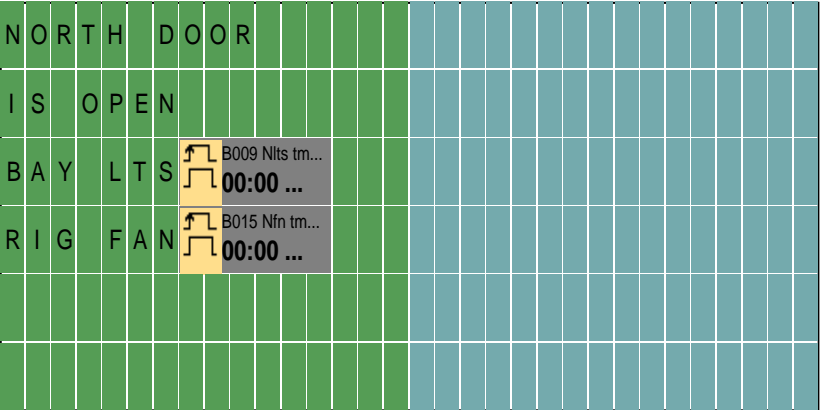


Creator:	John Ledbetter	Denver Fire Lineshop	Project:	Station 29 doors	Customer:	Denver Fire Department
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Block Number (Type)	Parameter
B001 buffer(On-delay) :	Rem = off 01:00s+
B002 buffer(On-delay) :	Rem = off 01:00s+
B009 Nlts tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B010 Sits tmr(Edge-triggered interval time-delay relay) :	Rem = off 03:00m+ 00:00s 1
B011(On-delay) :	Rem = off 00:50s+
B012 lt pulse(Asynchronous pulse generator) :	Rem = off 05:00s+ 01:00s
B015 Nfn tmr(Edge-triggered interval time-delay relay) : NORTH DOOR RIG EXHAUST FAN TIMER	Rem = off 02:00m+ 00:00s 1
B016 sw tmr (Off-delay) :	Rem = off 15:00m+
B017 Sfn tmr(Edge-triggered interval time-delay relay) : SOUTH DOOR RIG EXHAUST FAN TIMER	Rem = off 00:00m+ 00:00s 1
B021(On-delay) :	Rem = off 15:00s+
B024(Edge-triggered interval time-delay relay) : This keeps engineer from repeat remote pushing	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) : North 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) : South door	Rem = off 07:00s+
B035(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1

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Block Number (Type)	Parameter
B036(Seven-day time switch) :	+ MTWTFSS 20:00h 07:00h ----- -:- -:- ----- -:- -:- ----- Pulse=N
B037(Asynchronous pulse generator) :	Rem = off 03:00s+ 01:00s
B038 nremcnt(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B040(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1
B041 sremcnt(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B042(Astronomical clock) :	Lot: W104°45'18"+ Lat: N39°46'59" TZ: -7 Sunrise offset: 20 Sunset offset: -20
B044 bckupNlt(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B046 bckupSlit(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
B052 ndr cnt(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B055 sdr cnt(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0

Block Number (Type)	Parameter
<p>B056 Ndr msg(Message texts) :</p>  <p>Line3.8 B009 Nlts tmr-THRest Line4.8 B015 Nfn tmr-THRest</p>	<p>Prio = 0 Quit = off Text1: enabled Text2: disabled</p> <p>Ticker setting - CBC - Line1: N - Line2: Z - Line3: Z - Line4: Z - Line5: Z - Line6: Z</p> <p>Message Destination - Both</p>

B058(Asynchronous pulse generator) :	Rem = off 00:50s+ 00:50s
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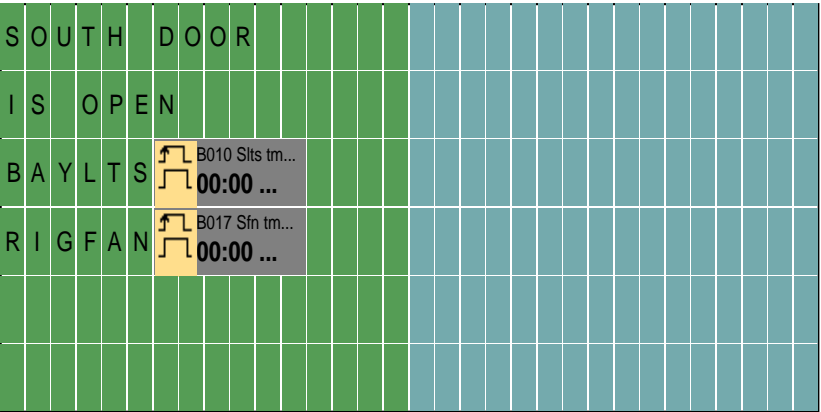
B059(Edge-triggered interval time-delay relay) :	Rem = off 05:00s+ 00:00s 1
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B060(On-delay) :	Rem = off 05:00s+
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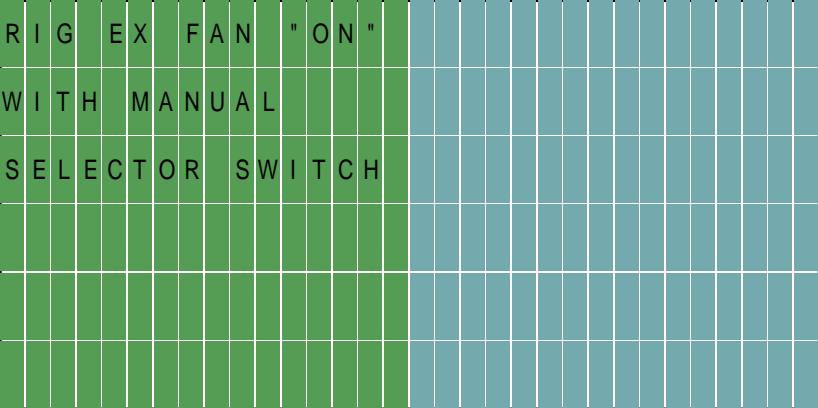
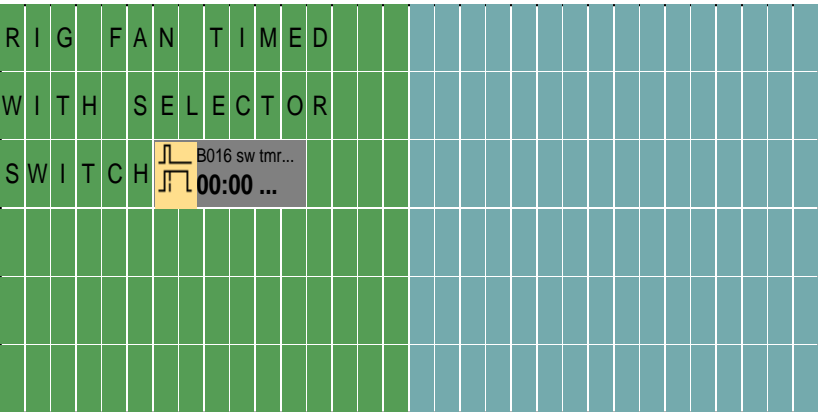
B061(Edge-triggered interval time-delay relay) :	Rem = off 15:00s+ 00:00s 1
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B062 npulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
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B063 spulse(Edge-triggered interval time-delay relay) :	Rem = off 00:50s+ 00:00s 1
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<p>B066 Sdr msg(Message texts) :</p>  <p>Line3.7 B010 Slts tmr-THRest Line4.7 B017 Sfn tmr-THRest</p>	<p>Prio = 2 Quit = off Text1: enabled Text2: disabled</p> <p>Ticker setting - CBC - Line1: N - Line2: Z - Line3: Z - Line4: Z - Line5: Z - Line6: Z</p> <p>Message Destination - Both</p>
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B067(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
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Block Number (Type)	Parameter
B069(Edge-triggered interval time-delay relay) :	Rem = off 02:00m+ 00:00s 1
B070 exfanctn(Up/Down counter) : Rig fan "ON" count	Rem = on On=0+ Off=0 Start=0
B071 exfanhrs(Operating hours counter) : Rig fan hours	ML= 0h 0m+ OT= 0h 0m Q->0=R+En
B072 fansw on(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B073 fn tmrs(Up/Down counter) :	Rem = on On=0+ Off=0 Start=0
B074(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1
B075(Edge-triggered interval time-delay relay) :	Rem = off 10:00s+ 00:00s 1
B076(Message texts) :  	Prio = 3 Quit = off Text1: enabled Text2: disabled  Ticker setting - CBC - Line1: N - Line2: Z - Line3: Z - Line4: Z - Line5: Z - Line6: Z Message Destination - Both
B077(Message texts) :   Line3.7 B016 sw tmr -TRest	Prio = 4 Quit = off Text1: enabled Text2: disabled  Ticker setting - CBC - Line1: N - Line2: Z - Line3: Z - Line4: Z - Line5: Z - Line6: Z Message Destination - Both
I1(Input) : I1-NORTH DOOR	



Block Number (Type)	Parameter
I2(Input) : I2-SOUTH DOOR	
I4(Input) : ex fan selector sw on	
I5(Input) : Ex fan selector sw timed	
I6(Input) : I6-VOCALARM	
I10(Input) : I10-NORTH door, receiver	
I11(Input) : I11-SOUTH 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 north opener white and orange	
Q7(Output) : To south opener white and orange	

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Connection	Label
I1	
I2	
I4	
I5	
I6	
I10	
I11	
M1	
M2	
M3	
M4	
M5	
M6	
M7	
M9	
M10	
M11	
M12	
M13	
M14	
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
Q7	
Q8	

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