

General Specifications

Annunciator Sequence

1. Sequence A (Automatic Reset)

(Samin ID, Basic Sequence BA)

The sequence which user are most frequently using is basic Sequence BA lamp is flicking and an alarm rings when abnormal signal occurs.

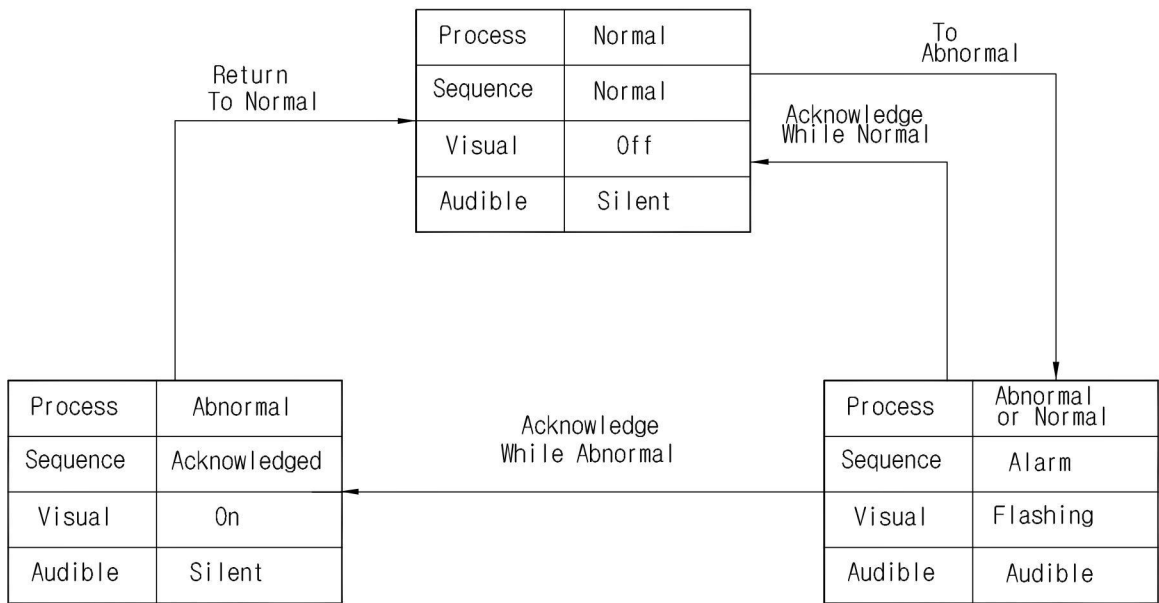
Lamp become "ON" and the alarm stops when acknowledge pushbutton is operated If abnormal process signal is lifted, lamp is turned off and all operation is return to normal.

operation of the test pushbutton simulates simultaneous abnormal process conditions on all related alarm points.

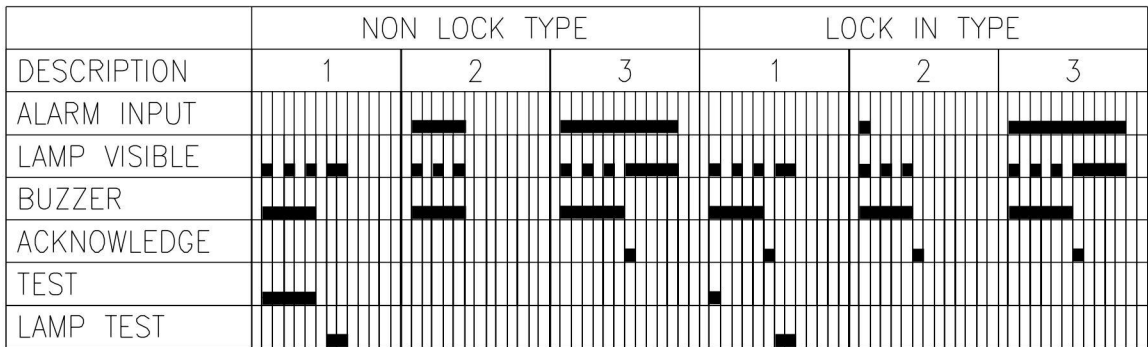
Test includes display a lamp test, a function module test, and alarm test.

1.1 Sequence A

a. Sequence Diagram

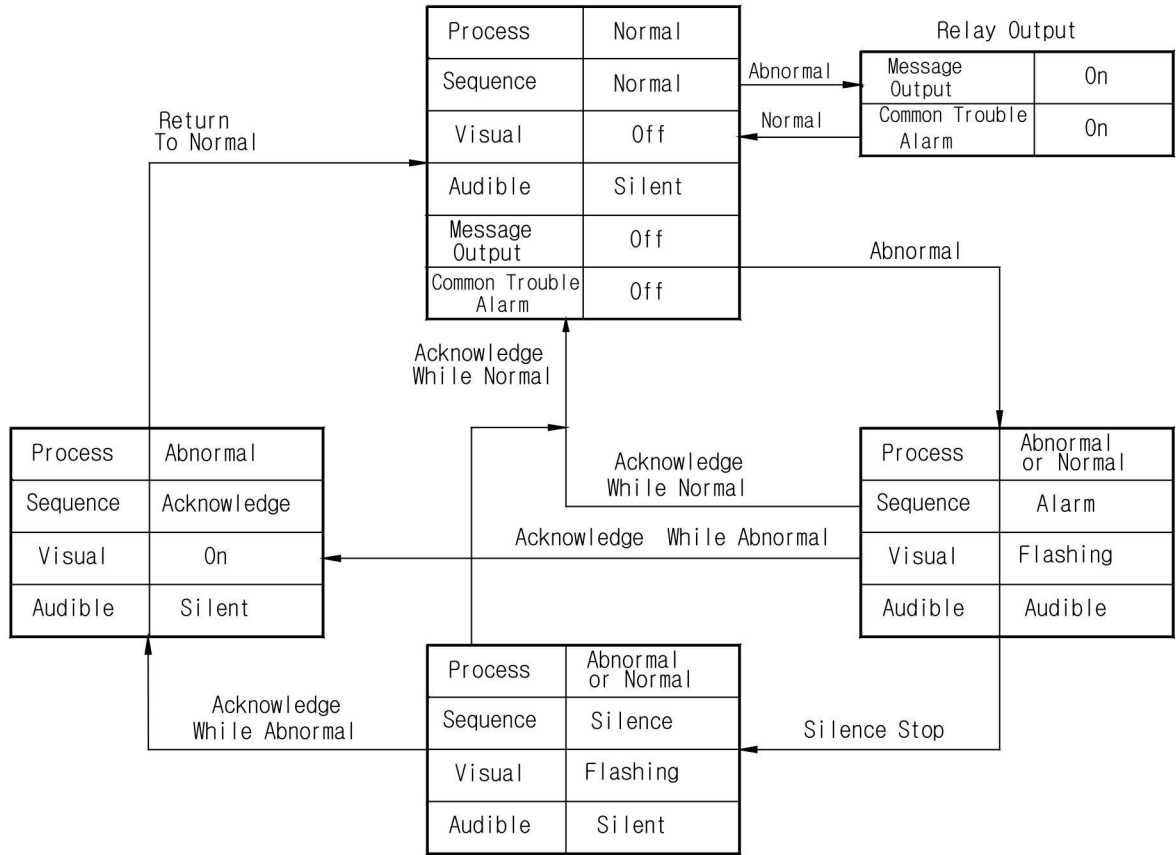


b. Sequence Chart



1.2 Sequence A With Option

a. Sequence Diagram



b. Sequence Chart

DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	█	█		█	█	
ALARM INPUT 2		█			█	
VISIBLE 1	█	█	█	█	█	█
VISIBLE 2	█	█	█	█	█	█
BUZZER	█	█	█	█	█	█
ACKNOWLEDGE		█			█	
TEST			█			█
SILENCE STOP		█			█	
RELAY OUTPUT 1	█	█		█	█	
RELAY OUTPUT 2		█			█	
C T A	█	█		█	█	

★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

General Specifications

Annunciator Sequence

2. Sequence M (Manual Reset)

(Samin ID, Inspection Sequence IS)

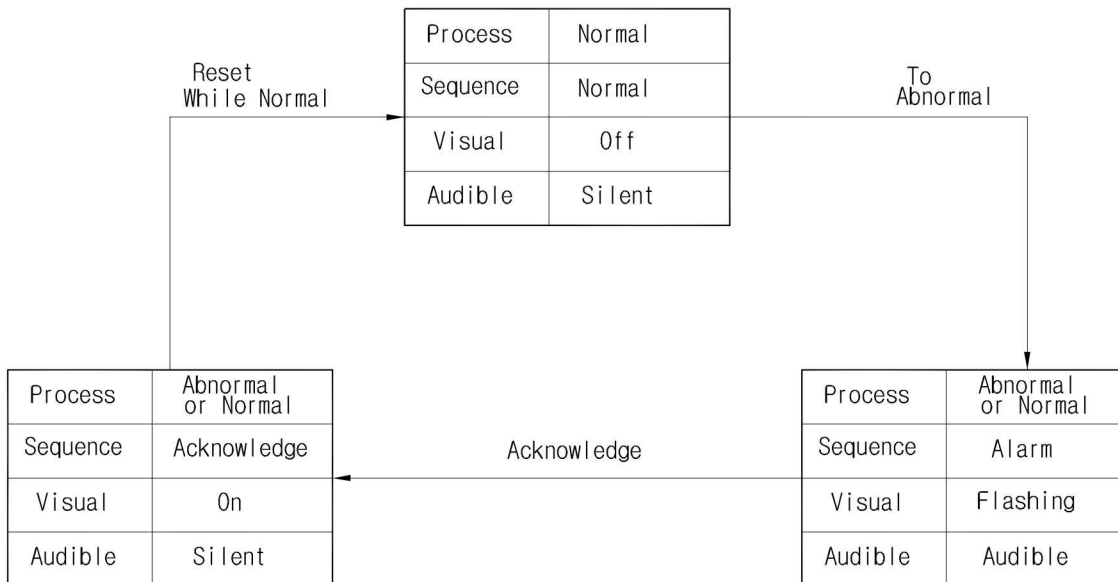
Inspection sequence is that Reset function is added to BA sequence display lamp is flicking and an alarm rings when abnormal process signal occurs. If press an a acknowledge pushbutton the display lamp is "ON" and the alarm stops.

Ever if abnormal process signal is lifted, the display lamp keeps "ON" If press a reset pushbutton simulates the display lamp is turned off and all operation is return to normal.

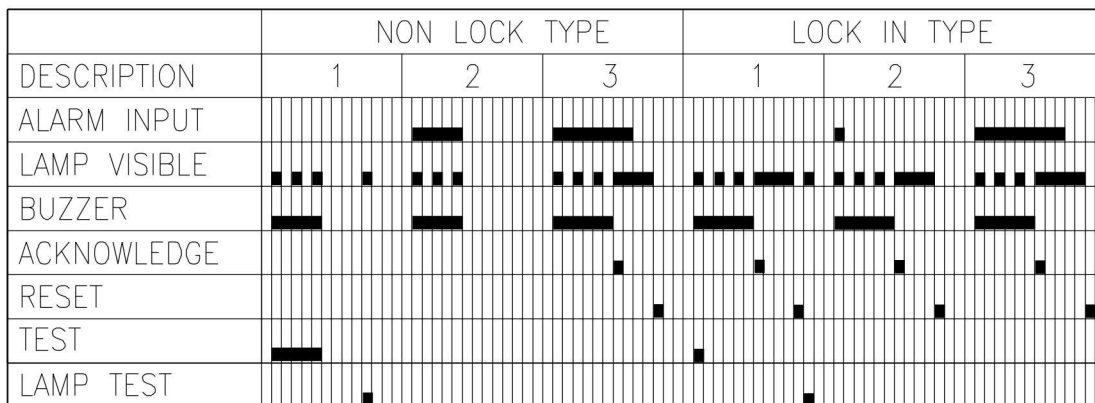
Operation test of the pushbutton simulates simultaneous abnormal process conditions on all related alarm points.

2.1 Sequence M

a. Sequence Diagram

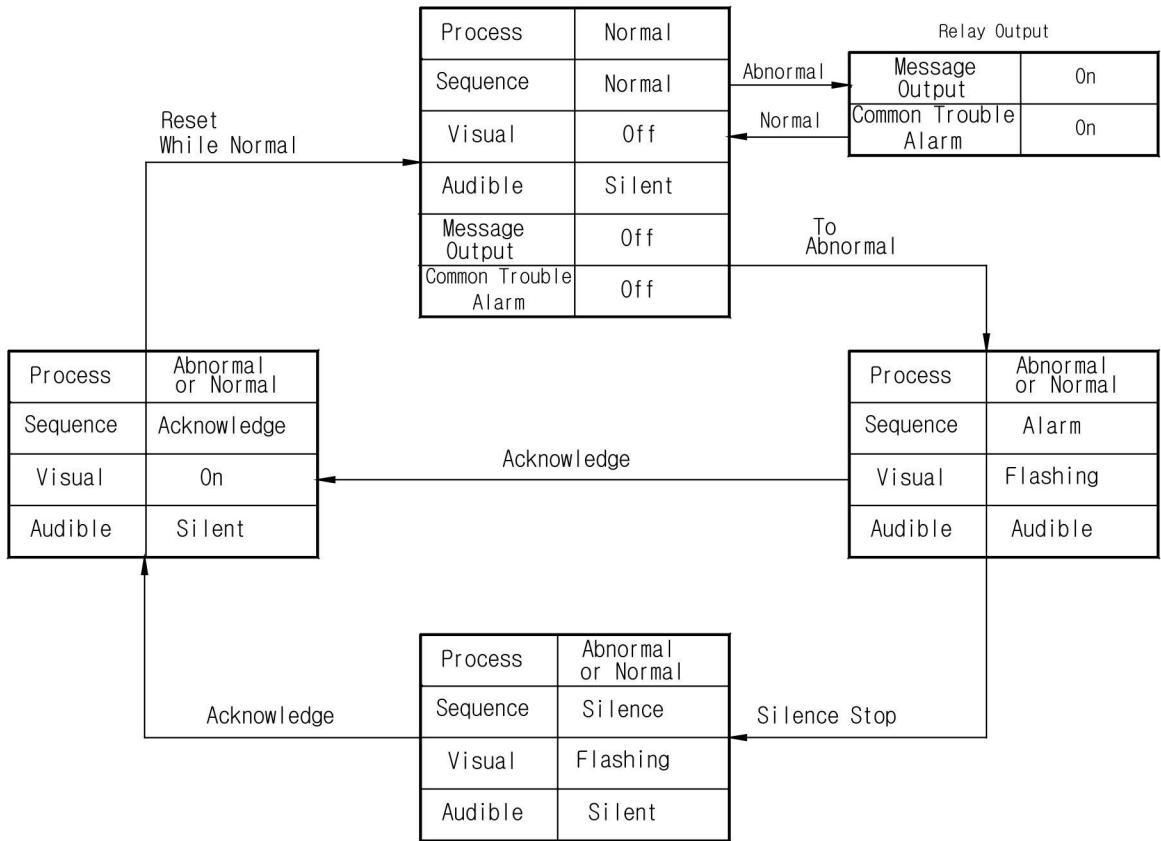


b. Sequence Chart



2.2 Sequence M With Option

a. Sequence Diagram



b. Sequence Chart

DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ALARM INPUT 2	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
VISIBLE 1	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]
VISIBLE 2	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]
BUZZER	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ACKNOWLEDGE	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RESET	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
TEST	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
SILENCE STOP	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RELAY OUTPUT 1	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RELAY OUTPUT 2	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
C T A	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]

★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

General Specifications

Annunciator Sequence

3. First Out Sequence

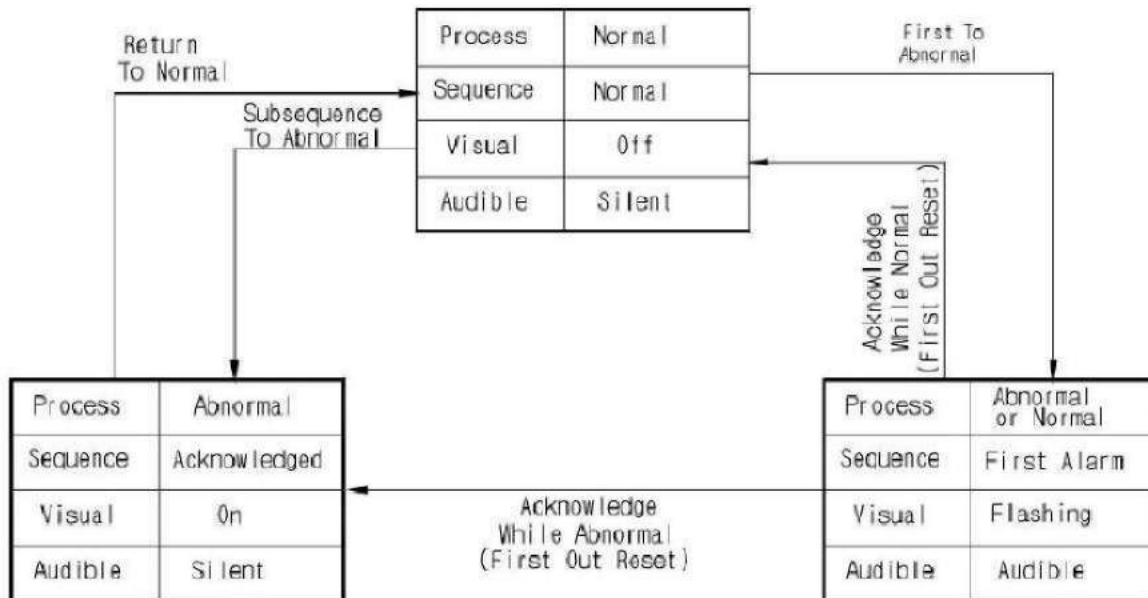
(Samin ID, First out Sequence FO)

First out sequence function to announce the causes of failures to operator in main devices.

First out annunciators that is to say, are used to indicate which one of a group of alarm points Operated first.

3.1 Sequence Diagram(F1A)

a. F1A Sequence Diagram

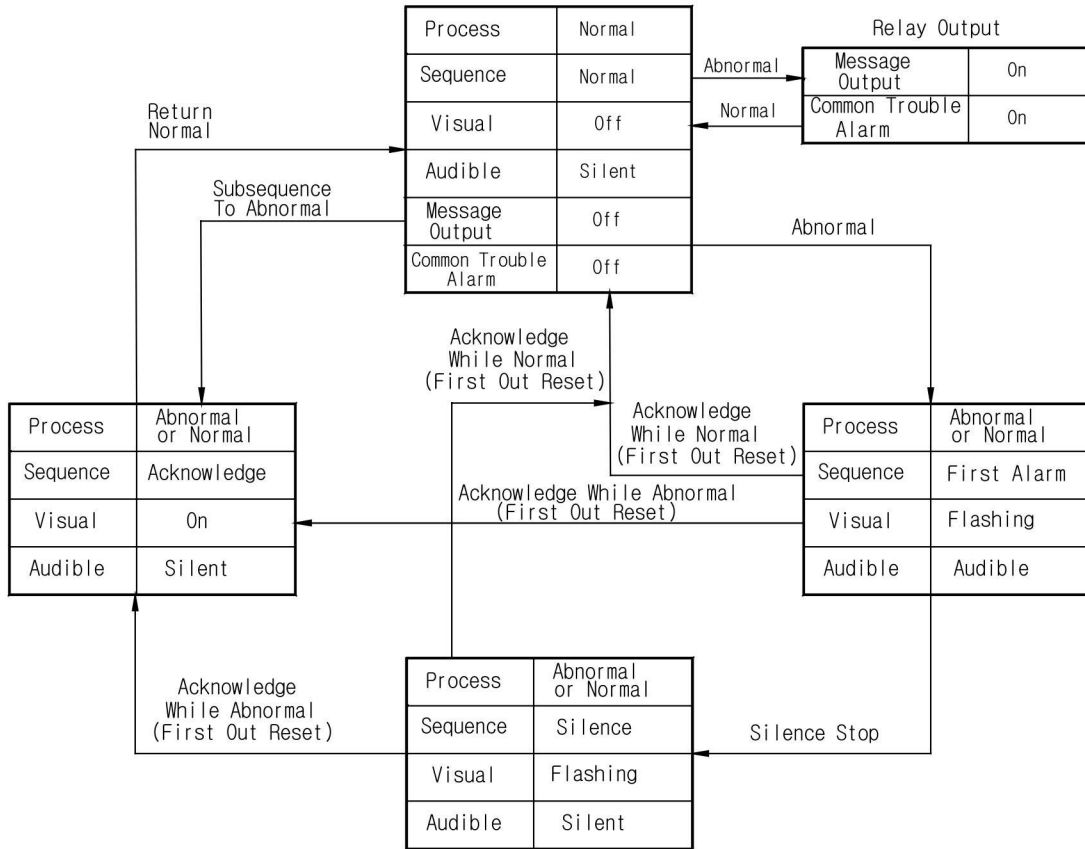


b. Sequence Chart

DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	█	█		█	█	
ALARM INPUT 2		█		█	█	
ALARM INPUT 3			█	█		█
VISIBLE 1	█	█	█	█	█	█
VISIBLE 2		█	█	█	█	█
VISIBLE 3	█	█	█	█	█	█
BUZZER	█	█	█	█	█	█
ACKNOWLEDGE		█		█	█	█
TEST			█			█

3.2 Sequence F1A With Option

a. Sequence Diagram



b. Sequence Chart

DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	█	█	█	█	█	█
ALARM INPUT 2	█	█	█	█	█	█
ALARM INPUT 3	█	█	█	█	█	█
VISIBLE 1	█	█	█	█	█	█
VISIBLE 2	█	█	█	█	█	█
VISIBLE 3	█	█	█	█	█	█
BUZZER	█	█	█	█	█	█
ACKNOWLEDGE		█		█	█	█
TEST			█			█
SILENCE STOP		█			█	█
RELAY OUTPUT 1	█	█	█	█	█	█
RELAY OUTPUT 2	█	█	█	█	█	█
RELAY OUTPUT 3	█	█	█	█	█	█
C T A	█	█	█	█	█	█

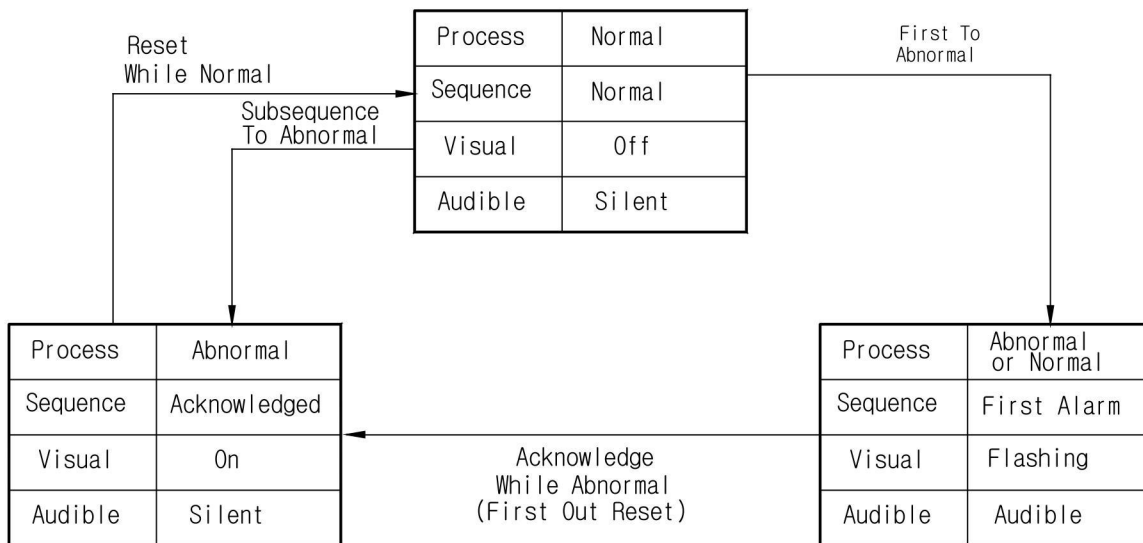
★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

General Specifications

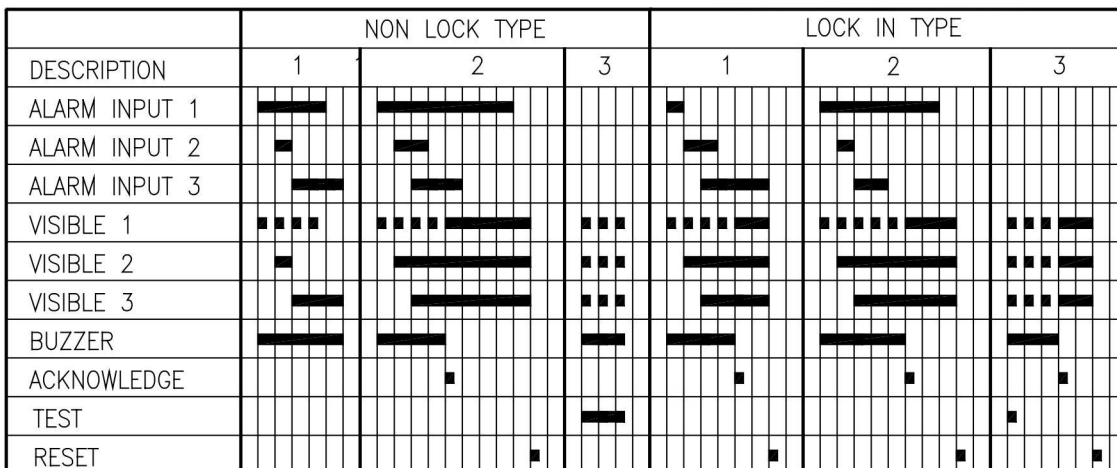
Annunciator Sequence

3.3 Sequence Diagram(F1M)

a. F1M Sequence Diagram

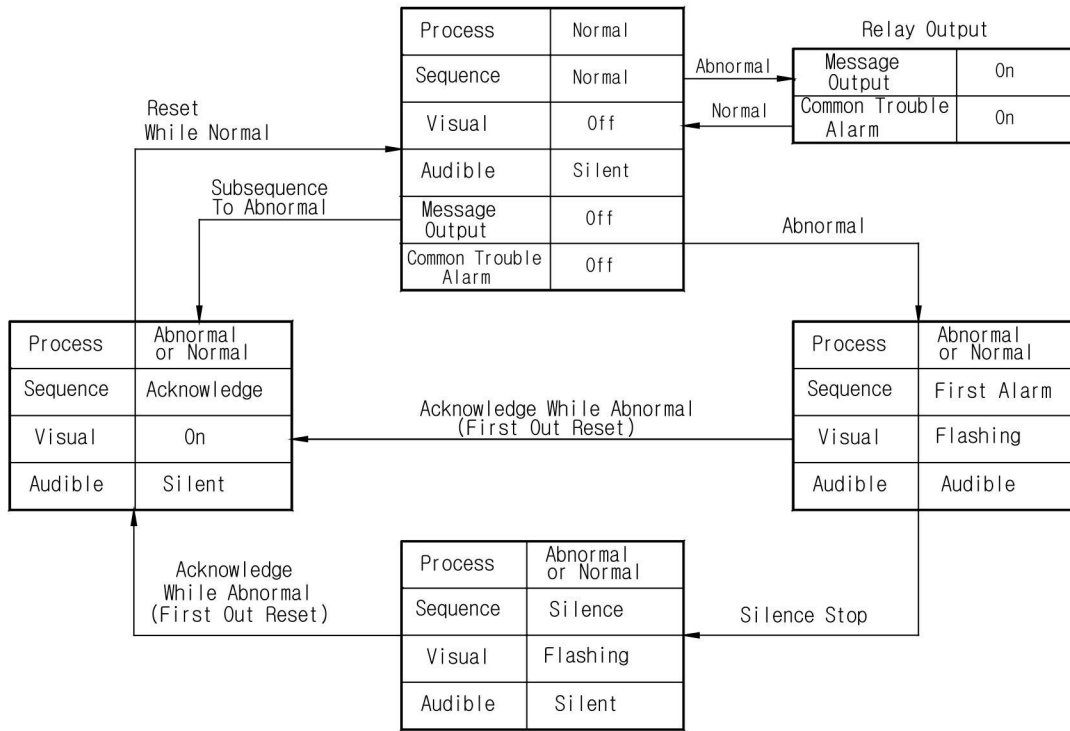


b. Sequence Chart

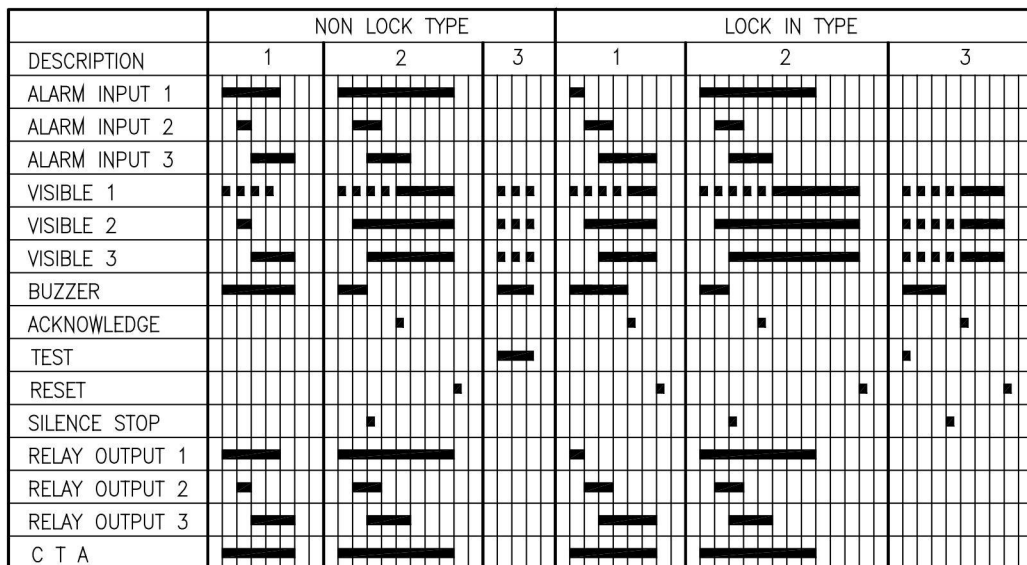


3.4 Sequence F1M With Option

a. Sequence Diagram



b. Sequence Chart



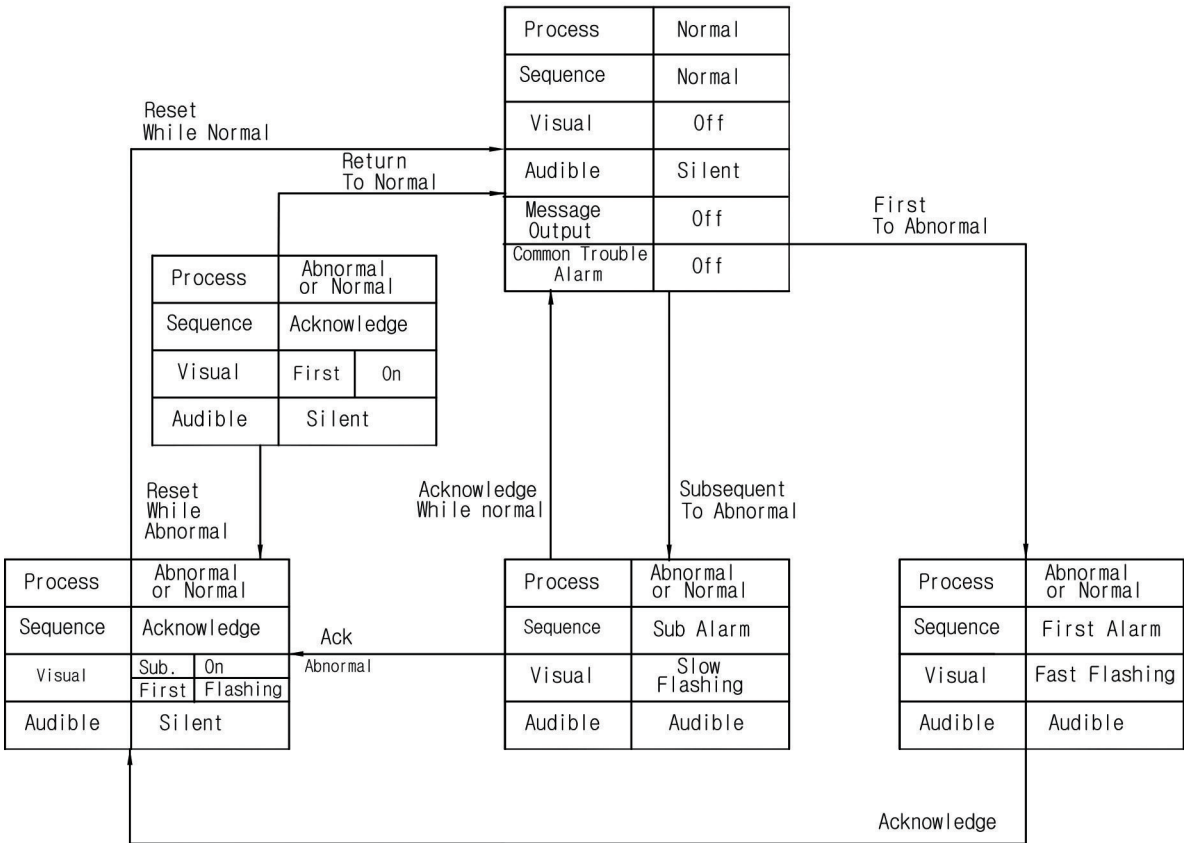
★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

General Specifications

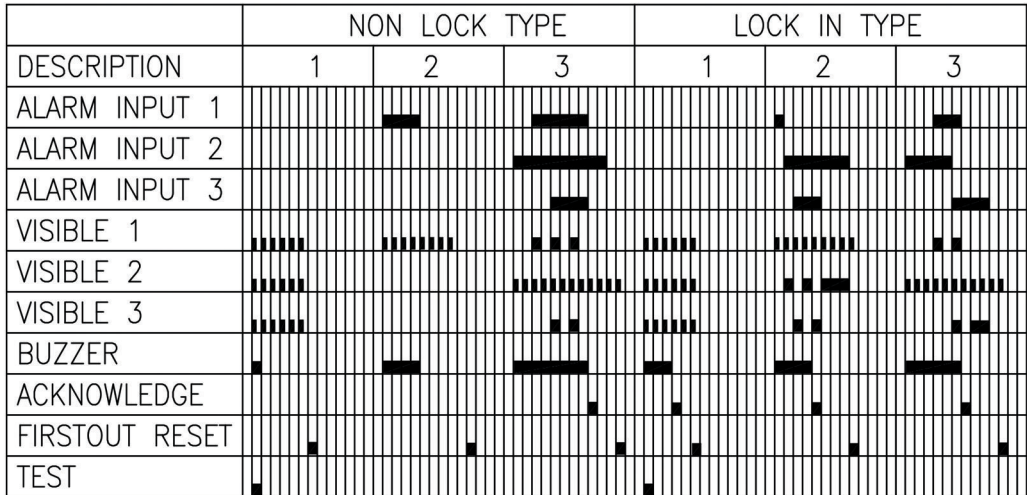
Annunciator Sequence

3.5 Sequence Diagram(F2A)

a. F2A Sequence Diagram

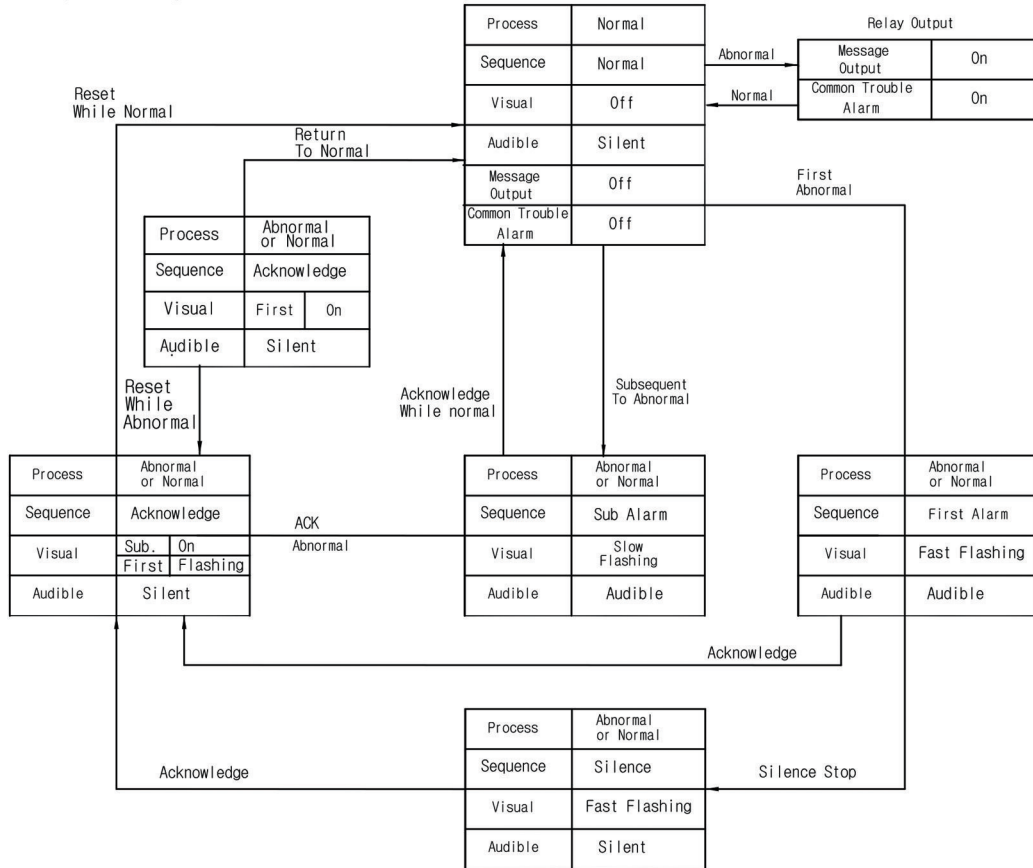


b. Sequence Chart



3.6 Sequence F2A With Option

a. F2A Sequence Diagram



b. Sequence Chart

DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ALARM INPUT 2	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ALARM INPUT 3	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
VISIBLE 1	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]
VISIBLE 2	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]
VISIBLE 3	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]	[Dotted]
BUZZER	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ACKNOWLEDGE	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
FIRST OUT RESET	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
TEST	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
SILENCE STOP	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RELAY OUTPUT 1	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RELAY OUTPUT 2	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
RELAY OUTPUT 3	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
C T A	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]

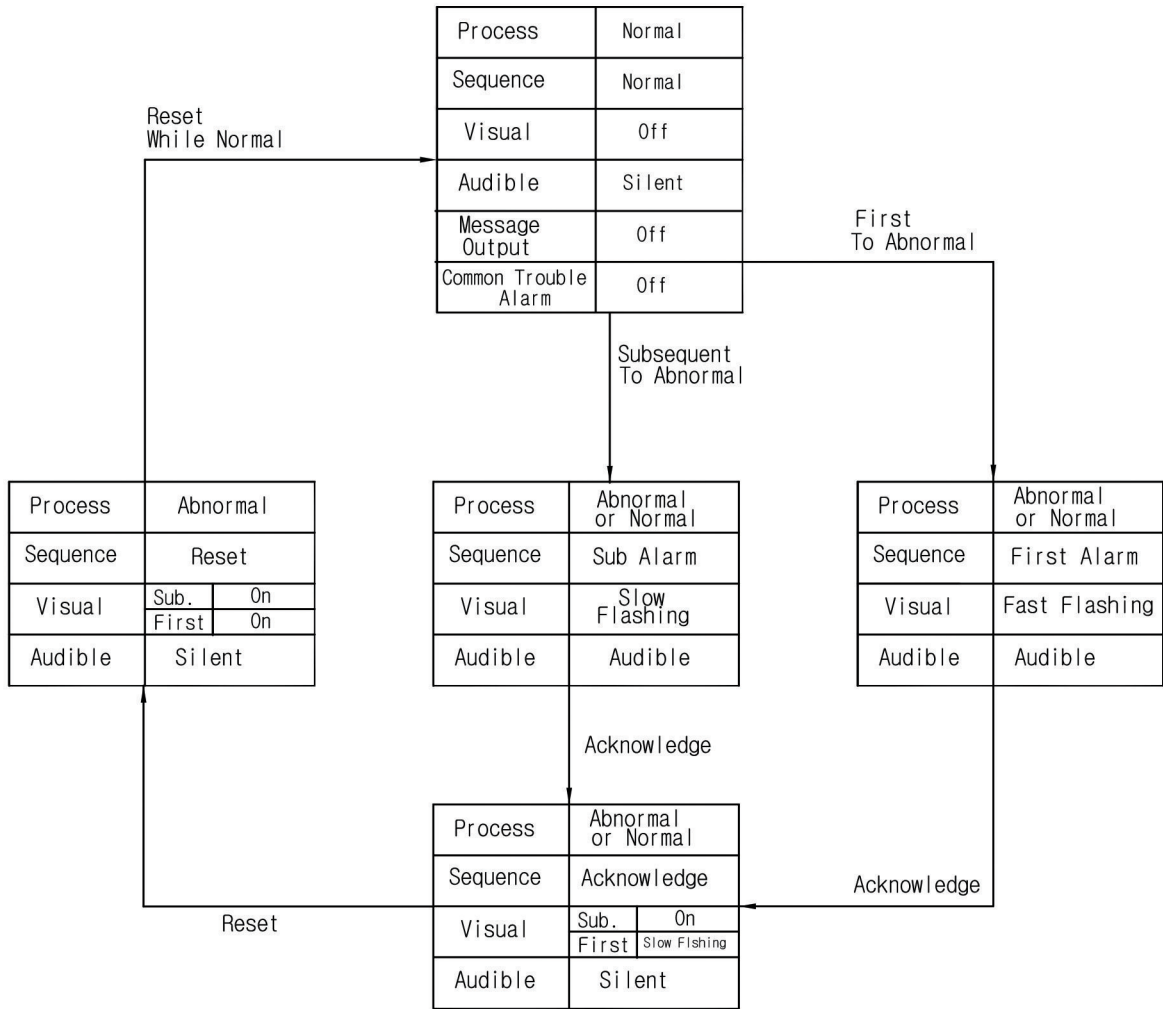
★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

General Specifications

Annunciator Sequence

3.7 Sequence Diagram(F2M)

a. F2M Sequence Diagram

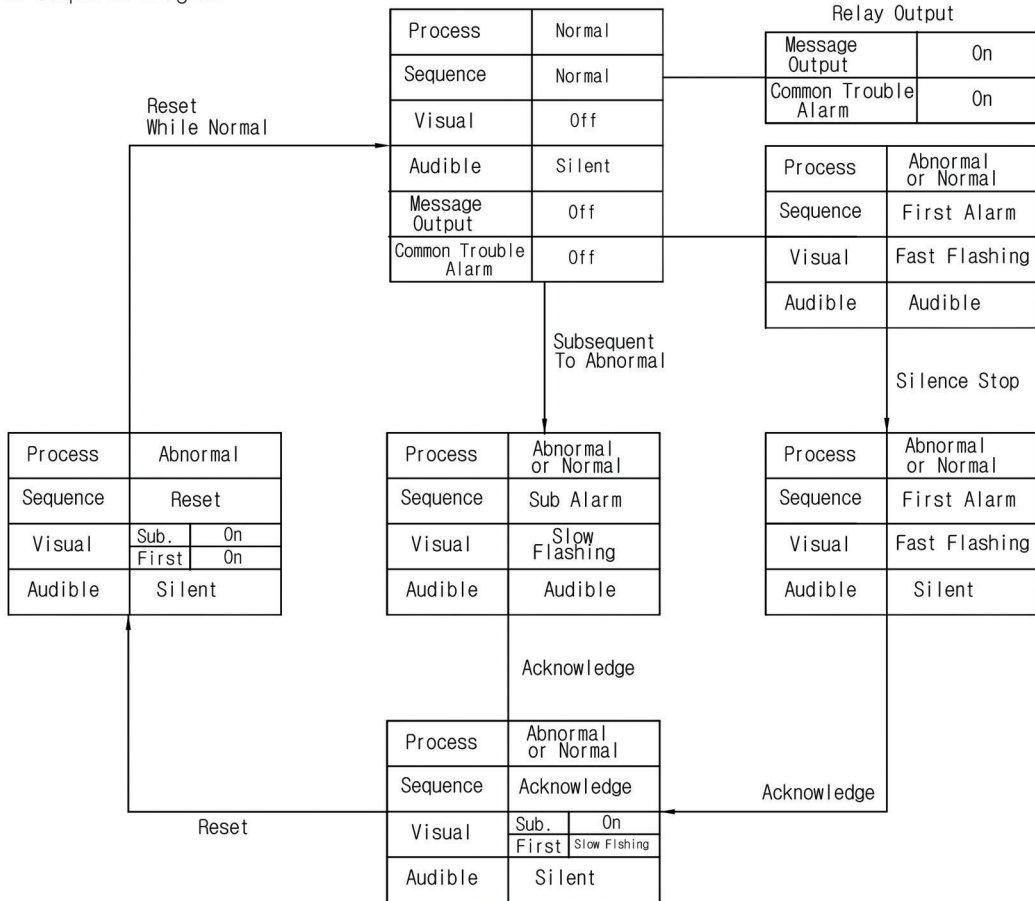


b. Sequence Chart

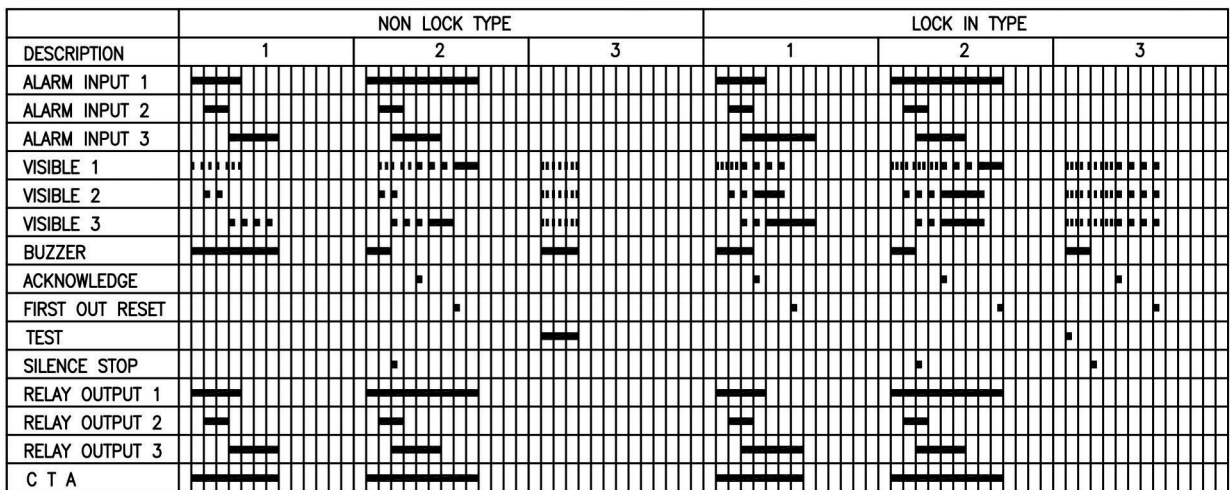
DESCRIPTION	NON LOCK TYPE			LOCK IN TYPE		
	1	2	3	1	2	3
ALARM INPUT 1	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ALARM INPUT 2	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ALARM INPUT 3	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
VISIBLE 1	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]
VISIBLE 2	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]
VISIBLE 3	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]	[Dots]
BUZZER	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
ACKNOWLEDGE	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
FIRST OUT RESET	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]
TEST	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]	[Pulse]

3.8 Sequence F2M With Option

a. F2M Sequence Diagram



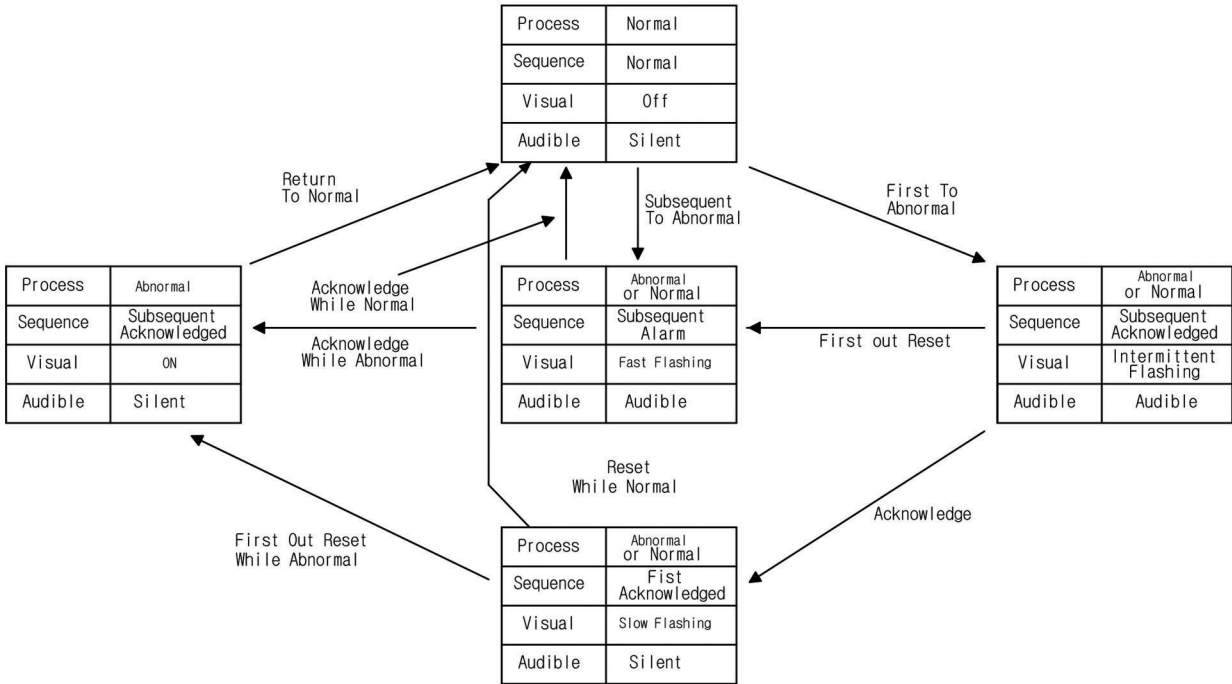
b. Sequence Chart



★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM

3.9 Sequence Diagram(F3A)

a. F3A Sequence Diagram

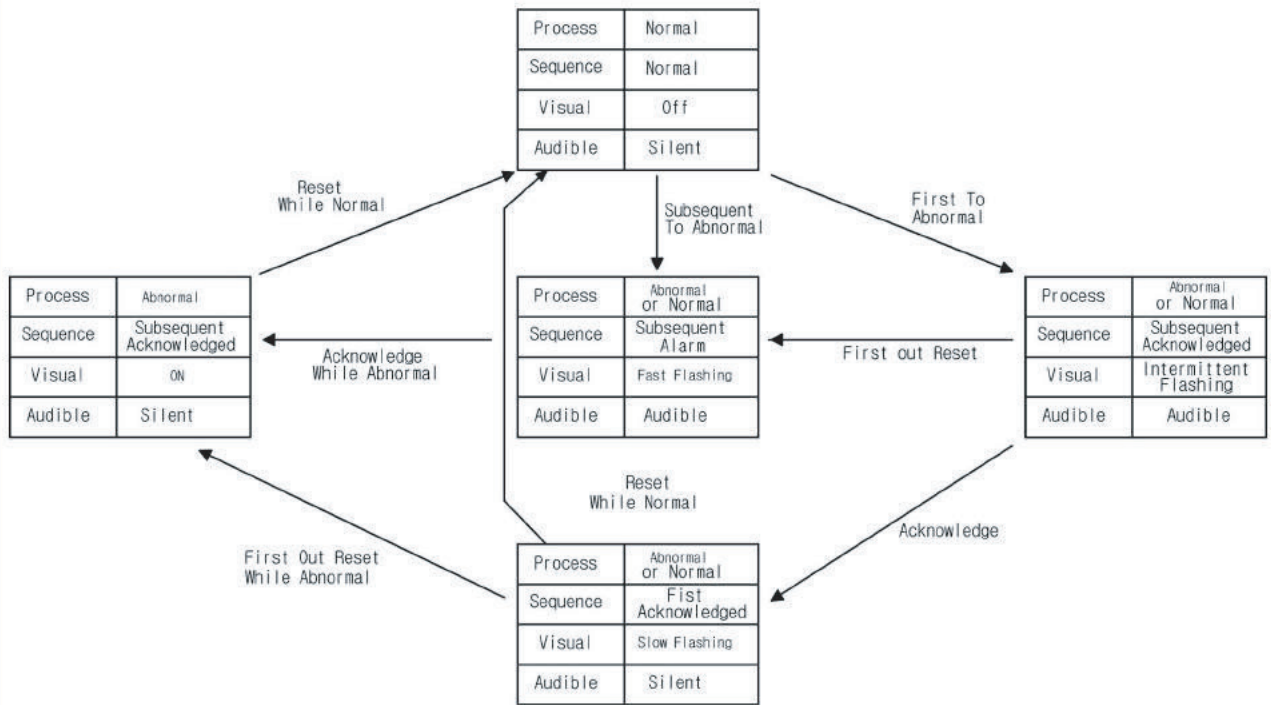


b. Sequence Chart

LINE	PROCSS CONDITIONS		PUSHBUTTON OPERATION	SEQUENCE STATE	VISUAL DISPLAY	ALARM AUDIBLE DEVICE	REMARKS
1	NORMAL		—	NORMAL	OFF	SILENT	
2	FIRST	ABNORMAL	—	FIRST ALARM	INTERMITTENT FLASHING	AUDIBLE	LOCK IN
3	SUB.	ABNORMAL		SUB. ALARM	FAST FLASHING	AUDIBLE	LOCK IN
4	FIRST	ABNORMAL OR NORMAL		FIRST OUT RESET BEFORE ACKNOWLEDGE	TO LINE 3		
5	FIRST	ABNORMAL OR NORMAL	ACKNOWLEDGE	FIRST ACKNOWLEDGED	SLOW FLASHING	SILENT	FIRST OUT RESET REQUIRED
6A	SUB.	ABNORMAL		SUB. ACKNOWLEDGED	ON	SILENT	MAINTAINED ALARM
6B	SUB.	NORMAL		TO LINE 8			MOMENTARY ALARM
7A	FIRST	ABNORMAL	FIRST OUT RESET AFTER ACKNOWLEDGE	TO LINE 6A			FIRST OUT RESET
7B	FIRST	NORMAL		TO LINE 8			FIRST OUT RESET
8	NORMAL		—	NORMAL	OFF	SILENT	AUTOMATIC RESET

3.10 Sequence Diagram(F3M)

a. F3M Sequence Diagram



b. Sequence Chart

■ Sequence Table

LINE	PROCCS CONDITIONS		PUSHBUTTON OPERATION	SEQUENCE STATE	VISUAL DISPLAY	ALARM AUDIBLE DEVICE	REMARKS
1	NORMAL		—	NORMAL	OFF	SILENT	
2	FIRST	ABNORMAL	—	FIRST ALARM	INTERMITTENT FLASHING	AUDIBLE	LOCK IN
3	SUB.	ABNORMAL		SUB. ALARM	FAST FLASHING	AUDIBLE	LOCK IN
4	FIRST	ABNORMAL OR NORMAL	FIRST OUT RESET BEFORE ACKNOWLEDGE	TO LINE 3			FIRST OUT RESET
5	FIRST	ABNORMAL OR NORMAL	ACKNOWLEDGE	FIRST ACKNOWLEDGED	SLOW FLASHING	SILENT	FIRST OUT RESET REQUIRED
6A	SUB.	ABNORMAL		SUB. ACKNOWLEDGED	ON	SILENT	MAINTAINED ALARM
6B	SUB.	NORMAL		TO LINE 8			MOMENTARY ALARM
7A	FIRST	ABNORMAL	FIRST OUT RESET AFTER ACKNOWLEDGE	TO LINE 6A			FIRST OUT RESET
7B	FIRST	NORMAL		TO LINE 8			FIRST OUT RESET
8	NORMAL		—	RESET	OFF	SILENT	AUTOMATIC RESET

General Specifications

Annunciator Sequence

4. Sequence Ringback

(Samin ID, Ringback Sequence RB)

Ring Back sequence(RB) is usually used in main facilities RB sequence is a basic annunciator sequence with ringback that distinct visual and audible indications in when process conditions return to normal.

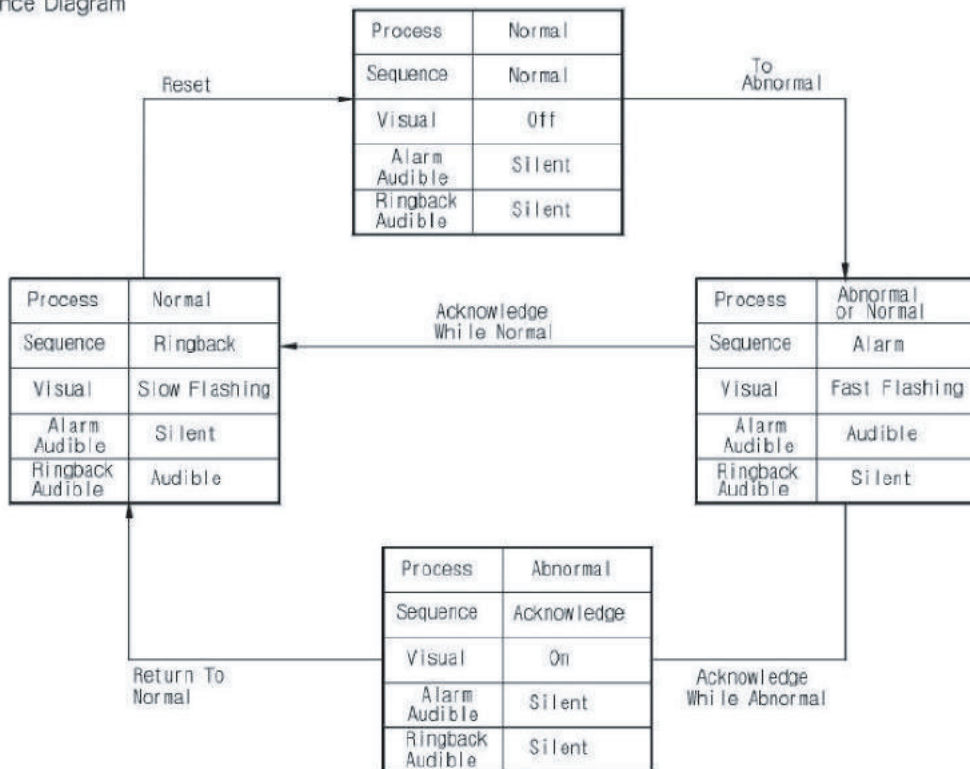
If signs of failure are inputed, horns blown and lamps are fast flicking.

If press the acknowledge pushbutton, the display lamp "ON" and the buzzer stopped.

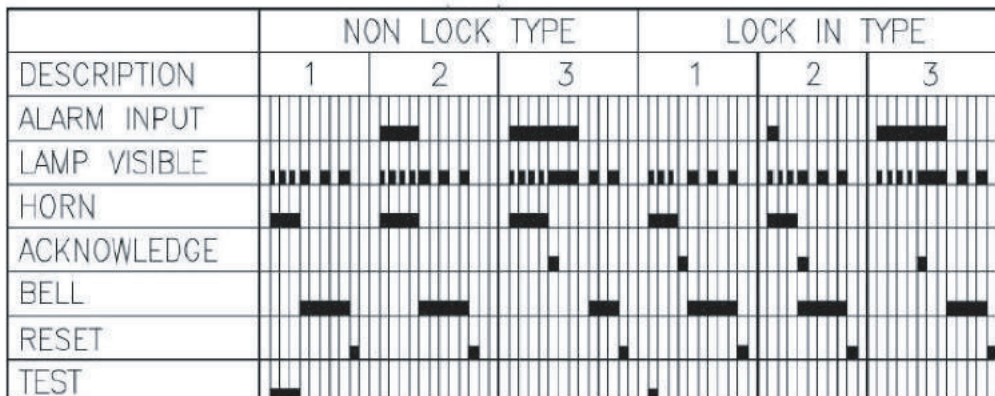
If recovery is completed, bells are rung and are slowly flicking If press a reset pushbutton, the display lamp is turned off the alarm is silenced, and all operation is back to normal.

4.1 Sequence Diagram(RB)

a. Sequence Diagram

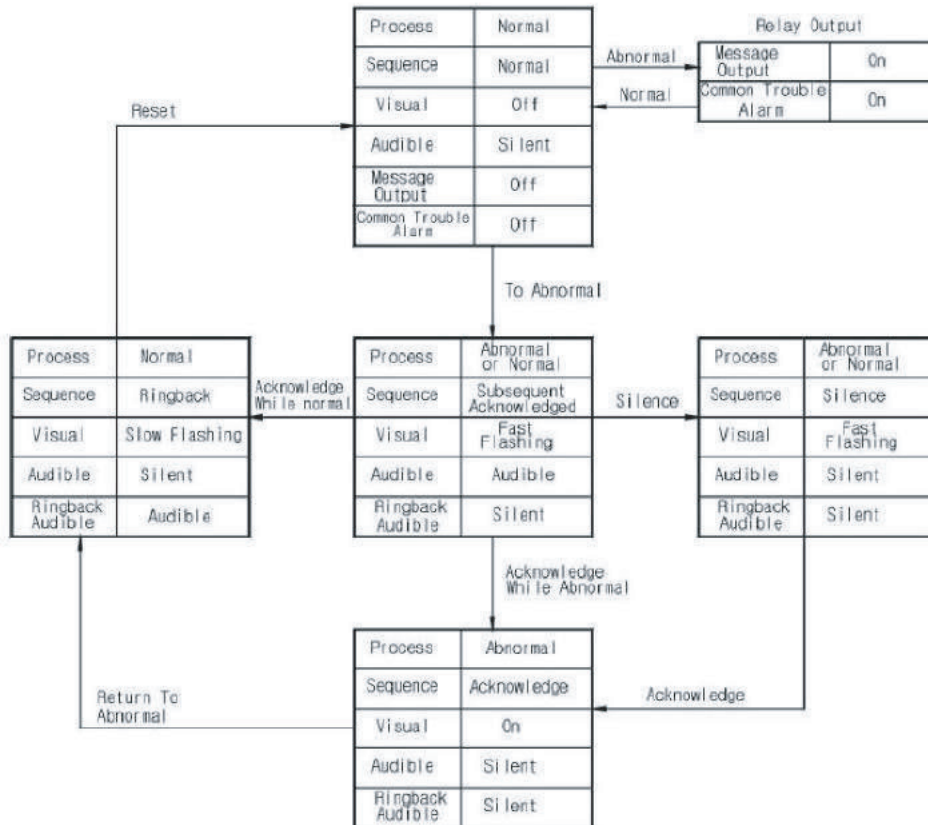


b. Sequence Chart

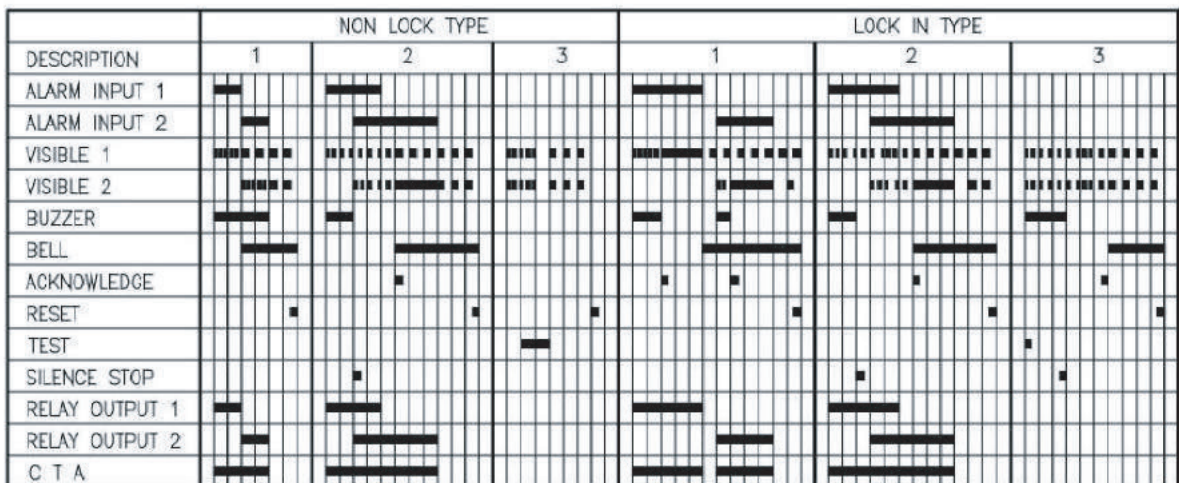


4.2 Sequence R With Option(RB)

a. Sequence Diagram



b. Sequence Chart



★OPTION : 1. SILENCE STOP 2. RELAY OUTPUT 3. COMMON TROUBLE ALARM