

(MODULE-TYPE WITH RELAY + PLC)



21 Windows Guide YSANS-37-ILO-A220

## **COMPETITIVE EDGE**



## **COMPLETE MODULE-TYPE**



## **SQUARE LAMP ONLY**



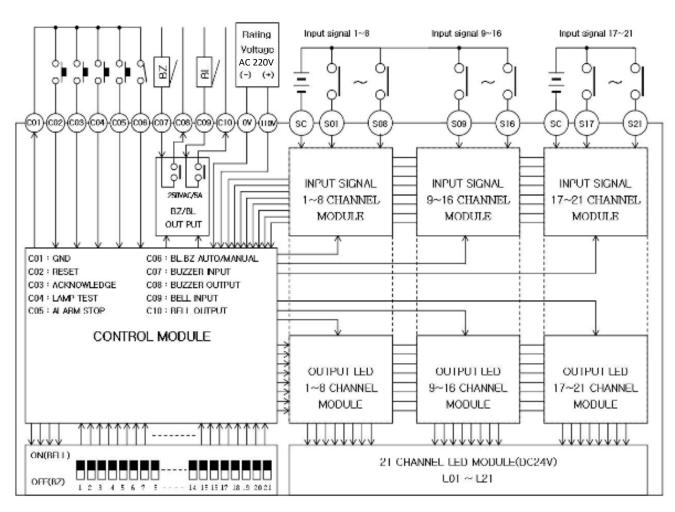
## **LONG LASTING LED**

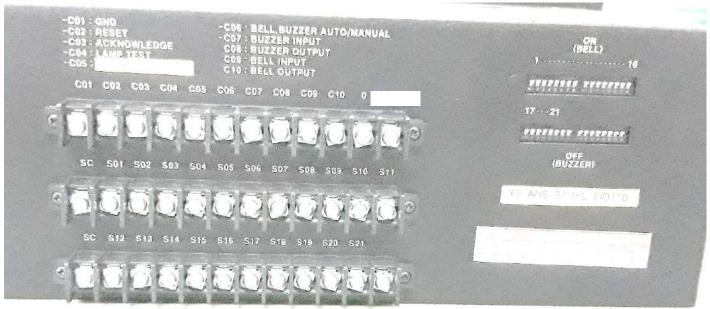


# 21 Windows Product Circuit Diagram



## Inside Circuit Diagram(21CH)





(MODULE-TYPE WITH RELAY + PLC)



## Illuminated Annunciator System

#### 1. Overview

Illuminate annunciator system is the intelligent alarm system that is alarmed trouble for operation in all alarm system requirements

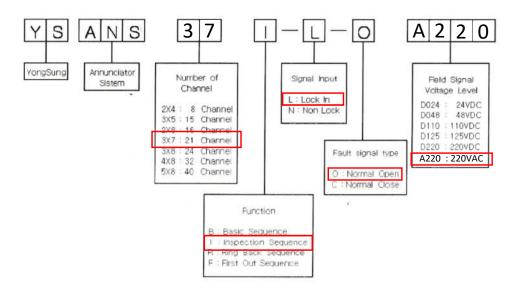
This is controlled by SCM(Single Chip Microcomputer) and used a luminous semiconductor.

The advantage of system is exceptional function, reliability and low electric power consumption.

#### 2. Function and Features

- (1) Illuminate annunciator system can be alarmed 8, 15, 16, 21, 24, 32 and 40 circuit signals and sent directly by light signal through rectangle lamp with fonts.
- (2) This system can be defined variably by needs the alarm signal for input signal circuit.
  - 1) It can be selected A or B contact by user
  - 2) It can be either high pitched(buzzer), or low pitched(bell) in alarm tone
  - Alarm sound is selected minimum process of manual return or automatic return(15sec)
- (3) Sound alarm equipment is possible to send contact of alarm control of low, high pitched simultaneously. Therefore user can operate directly buzzer or bell
- (4) Variable sequence for indication (4 types)
- (5) Input signal applies to DC(Direct Current) 220V, 110V, 48V and 24V

#### 3. Type and Classification



(MODULE-TYPE WITH RELAY + PLC)



#### 4. Performance Summary

Rating Voltage		DC24, DC110V, DC125V, DC220V, AC220V (Fixed at factory				
		YS ANS 8	Above 10W			
		YS ANS 15	Above 12W			
Power Consumption		YS ANS 16	Above 13W			
		YS ANS 21	Above 20W			
		YS ANS 24	Above 25W			
		YS ANS 32	Above 30W Above 45W			
		YS ANS 40				
		YS ANS 64	Above 60W			
	Туре	NO / NC				
Fault Signal	Duration Time	Above 15ms				
rault Signal	Field Contact Voltage	DC24, DC48V, DC110V, DC125V, DC220V, A (Fixed at factory)				
Lamp Rat	ting	DC24V 20mA				
Lamp Co	olor	Red, Green, Yellow, Orange, Blue, White				
Ambient Temperature		-25 ~ 50°C				
Relative Humidity		45 ~ 85%				

#### 5. Description of Indication and Function

- (1) Indication(New Rectangle Lamp 34-NRL34)
  - When trouble signal is got by operation for function, Indicator is lighting and flickering
- (2) Ground(C01)
  - This function is operated with push button switch and rotary switch as power of RESET, ACKNOWLEDGE, LAMP TEST, OPERATION TEST, BUZZER and BELL AUTO/MANUAL
- (3) Reset(C02)
  - Signal is input from C01 to terminal of C02, All alarm signal is extinguished and ANS is returned to initialization.
    - Also all function is operated normally according to user's setting after setting internal function, function of BUZZER, BELL and AUTO/MANUAL then RESET signal is input
    - but, ANS can be performed after inputting signal of Acknowledge(C03) and Alarm stop(C05)
- (4) Acknowledge(C03)
  - Signal is input from C01 to terminal of C03, indicator lamp changes from flickering to lighting

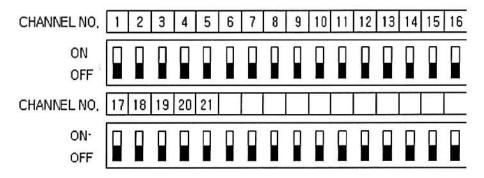
#### (MODULE-TYPE WITH RELAY + PLC)



- (5) Lamp test(C04)
  - Signal is input from C01 to terminal of C04, all indicator can be checked as lighting then lighting is turned off after input terminal of reset is input from signal of C01
- (6) Alarm stop(C05)
  - Signal is input from C01 to terminal of C05, alarm signal (Buzzer or Bell) according to trouble signal is extinguished
- (7) BELL, BUZZER auto/manual(C06)
  - Signal is input from C01 to terminal of C06, function is set as AUTO, when trouble signal is got, alarm signal is operated and turned off during 15sec automatically

The other side, Signal is not input from C01 to terminal of C06, function is set as MANUAL when trouble signal is got, signal alarm is operated automatically and turned off by inputting signal from C01 to terminal of C02 and C03 manually

- (8) Alarm signal(C07~C10) refer to terminal circuit
  - Alarm signal of BUZZER: C07, C08 (CONTACT: AC250V 3A / DC30V 5A)
  - Alarm signal of BELL: C09, C10 (CONTACT: AC250V 3A / DC30V 5A)
- (9) Input signal of trouble refer to terminal circuit
  - SC(signal common): connecting 0V of voltage of input signal of incident
  - S01~S64(signal channel): inputting +V of voltage of input signal of incident through A or B contact
- (10) Selector switch for BUZZER, BELL
  - Each channel of Right side in back of annunciator system can be selected
     Buzzer or Bell according to high or low incident signal as Picture 1.



<Picture. 1> 21 Sound alarm Selector Switch

(MODULE-TYPE WITH RELAY + PLC)



6. Indicating type of Rear Terminal Block

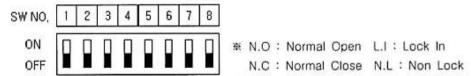
		YS ANS - 37 1	-L-O A220		
	C01	GROUND		S06	SIGNAL INPUT 6(+)
	C02	RESET		S07	SIGNAL INPUT 7(+)
	C03	ACKNOWLEDGE		S08	SIGNAL INPUT 8(+)
	C04	LAMP TEST		S09	SIGNAL INPUT 9(+)
	C05	ALARM STOP		S10	SIGNAL INPUT 10(+)
	C06	BZ,BL A / M		S11	SIGNAL INPUT 11(+)
	C07	BUZZER INPUT		sc	SIGNAL INPUT 12~21 COM(-)
	C08	BUZZER OUTPUT		S12	SIGNAL INPUT 12(+)
	C09	BELL INPUT		S13	SIGNAL INPUT 13(+)
	C10	BELL OUTPUT		S14	SIGNAL INPUT 14(+)
The live and the l	P1	RATING VOLTAGE		S15	SIGNAL INPUT 15(+)
	P2	RATING VOLTAGE		S16	SIGNAL INPUT 16(+)
	sc	SIGNAL INPUT 1~11 COM(-)		S17	SIGNAL INPUT 17(+)
	S01	SIGNAL INPUT 1(+)		S18	SIGNAL INPUT 18(+)
	S02	SIGNAL INPUT 2(+)		S19	SIGNAL INPUT 19(+)
	S03	SIGNAL INPUT 3(+)		S20	SIGNAL INPUT 20(+)
	S04	SIGNAL INPUT 4(+)		S21	SIGNAL INPUT 21(+)
The six of	S05	SIGNAL INPUT 5(+)			

(MODULE-TYPE WITH RELAY + PLC)



#### 7. Setting method of Function and Sequence

 When annunciator is divided into body and above case. User can see function and sequence selector switch then set function and sequence circuit



	SW1	SW2	SW3	SW4	SI	W5	SI	N6	SW7	SW8
Basic Sequence	OFF	OFF	-	2	N.O	OFF	L.I	OFF	-	(=)
					N.C	ON	L.L	ON		
Inspection Sequence	ON	055		-	N.O	OFF	Only L.I		-	-
		OFF	1.73		N.C	ON				
Ring Back Sequence	OFF	ON		-	N.O	OFF	L.I	OFF		1-1
			-		N.C	ON	N.L	ON	-	
First Out Sequence	ON ON	ON	ON -	-	N.O	OFF	L.I	OFF		-
		ON			N.C	ON	N.L	ON	_	

It is possible to select Alarm sound either manual return or automatic return in all sequence

#### 8. Definition of Sequence

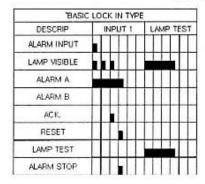
#### (1) Basic sequence

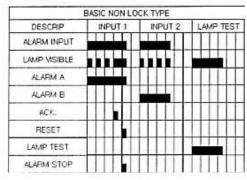
It is used to be alarm system frequently.

If operation is normal, Lamp is turned off but, incident signal is occurred, pertinent lamp starts flicking with alarm signal then user notice about abnormal situation.

If user pushes ACK and Alarm button, Lamp is turned off and alarm signal is extinguished then return to normal situation.

Timing Diagram





#### (MODULE-TYPE WITH RELAY + PLC)



#### (2) Inspection sequence

All function of system is same as basic sequence including memory function of alarm input signal

Annunciator system can keep indicating abnormal place even though a defect place is returned to normal condition and user pushes ACK button and Alarm button, Lamp is turned off from flicking state and alarm signal is extinguished.

Alarm lamp keep lighting for notifying defect place even if input signal is canceled and lamp is turned off according to pushing Reset button then system is turned to normal condition

Annunciator system is only for lock in type

LOCK IN TYPE

DESCRIP INPUT 1 INPUT 2 LAMP TEST

ALARM INPUT

LAMP VISIBLE

ALARM A

ALARM B

ACK.

RESET

LAMP TEST

ALARM STOP

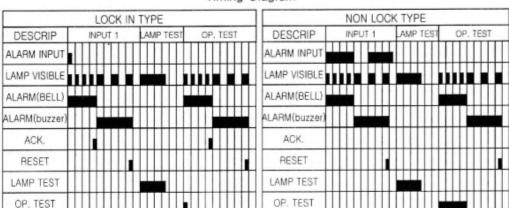
Timing Diagram

#### (3) Ring rear sequence

Annunciator system is same as basic sequence, but when alarm starts, lamp is fast flicking with alarming first step. At this time if pushing ACK, button, lamp changes to slow flicking with alarming second step

For stopping second alarm step, operator has to push reset button

In case of NON LOCK, system can notify operation from alarm condition to normal condition



Timing Diagram

#### (MODULE-TYPE WITH RELAY + PLC)



#### (4) First out sequence

This sequence is for distinguishing between first alarm(reason) and second alarm(result)

Alarm lamp of first abnormal signal is fast flicking with alarm sound then second abnormal signal is slow flicking

At this time if pushing ACK, button, alarm sound is stoped and lamp changes from fast flicking to slow flicking

Finally other alarm lamps keep lighting and turning off as cancelling abnormal signal At this time if pushing Reset button, system is returned to normal condition.

but, After pushing ACK button, if abnormal signal is occurred before pushing Reset button, alarm lamp is indicated as slow flicking

DESCRIP INPUT 1 INPUT 2 LAMP TEST OP. TEST

ALARM INPUT 2

LAMP VISIBLE 1

LAMP VISIBLE 2

ALARM A

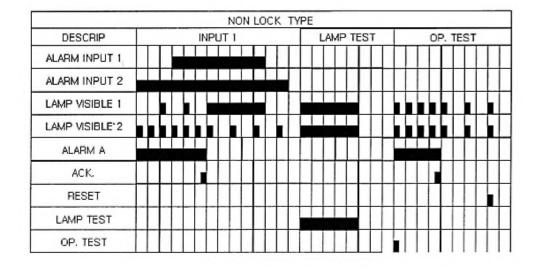
ACK.

RESET

LAMP TEST

OP. TEST

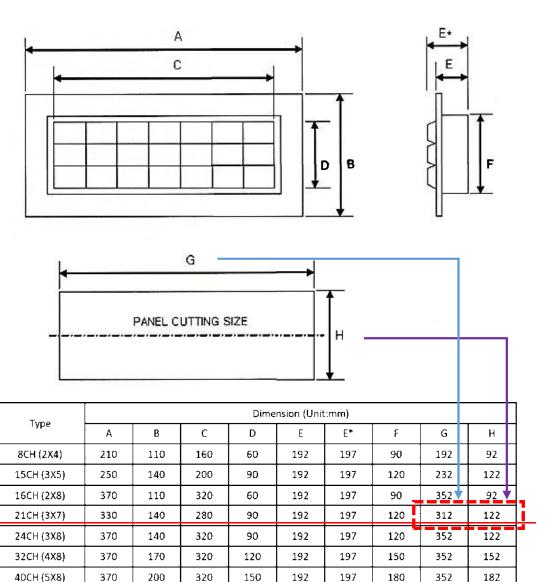
Timing Diagram



(MODULE-TYPE WITH RELAY + PLC)



#### 9. Shape and Panel Attachment Dimension



Notes) Window size: 30mm×40mm(approx)

290

A: (n×40)+50, B: (n×30)+50, C: n×40, D: n×30, E: 192, E\*: 197

192

197

270

352

272

F: (n×30)+30, G: A-18. H: F+2

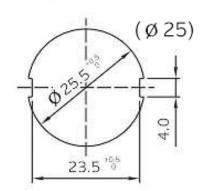
320

#### **Cutting Size for 4 Push Buttons**

370

64CH (8X8)





(MODULE-TYPE WITH RELAY + PLC)

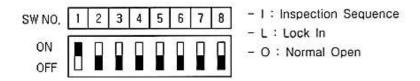


#### 10. User Guide

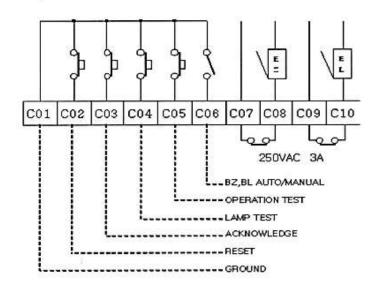
(In case of YS ANS 37 I-L-O D110 D11 : Basic Sequence)

- (1) Setting method of function and sequence
- Setting method of function and sequence is fixed according to order requirement when product is took out

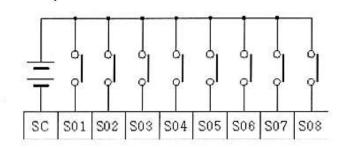
If User want to set function and sequence differed from original order requirement. User have to attend to operation



#### (2) Control part circuit



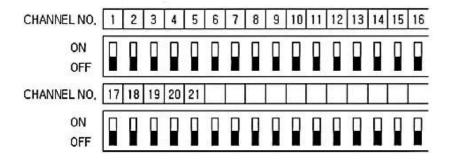
#### (3) Signal part circuit







- (-V) of Voltage for trouble signal is connected with SC then contact of relay for trouble signal is connected with (+V)
- (4) Setting method of BELL, BUZZER
  - Buzzer is set as Off when product is took out
  - It is placed on right side of top in the rear of product
  - Bell and Buzzer can be set separately according to weigh a matter of trouble each



#### Remarks in Use

- (1) Please attend to using voltage. When product is took out, rating voltage and signal voltage of trouble input is fixed according to user's order requirement
- (2) If setting of function and sequence is incongruity, annunciator system is able to be malfunction
- (3) Annunciator system can be operated normally with more then 20ms of trouble input voltage