



INTRODUCTION



Annunciation systems are used to give audio and visual indication of fault conditions. Annunciators play an important role of watching the fault conditions and indicating them to help in speedy location and correction.

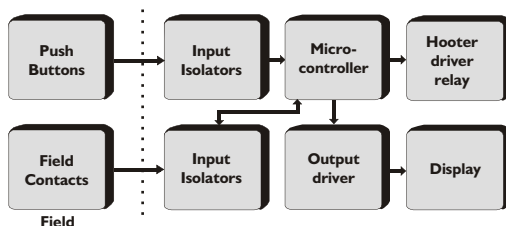
ESD's "ALERT" series alarm annunciator system is suitable for 4/6/8/12/16/24/32/48 inputs and is available in different DIN standard cutouts or 19" racks. The series is designed using powerful microcontroller and highly reliable electronic components.

The Annunciators are connected to **potential free** field contacts (as inputs). When a fault condition occurs in any one of the connected inputs, annunciator indicates the fault by flashing the respective window (visual indication) and also

gives signal to the Hooter (audio indication).

The Alert series accepts potential free contacts as its inputs, with a selection facility for 'NO' (make to alarm) and 'NC' (break to alarm). User can connect a hooter through relay for audio alarm. Facility to connect external 'Test & Accept' push buttons is available. Multiple flashing rates are provided for differentiating various fault types.

PRINCIPLE OF OPERATION



The single chip microcontroller of the Alert series continuously monitors all the connected inputs. If a fault occurs in any of the inputs, then it is detected by the CPU. According to the nature of the fault, the CPU will decide the status of the window and hooter. Faults are classified as :

1. Persisting fault but not accepted
2. Persisting fault, but accepted.
3. Momentary fault disappeared before accepting

FEATURES

- ✓ Highly compact and light weight
- ✓ LED Indicators consume 90% less power as compared to lamps & hence avoid heat generation
- ✓ Unlimited LED life, no replacement required
- ✓ Super bright LEDs for long distance visibility
- ✓ Fault condition setting site selectable
- ✓ Fast response time
- ✓ Three flashing rates indicate different types of faults
- ✓ Facility to connect hooter
- ✓ Optically isolated inputs
- ✓ Various sizes & fonts for window inscription.
- ✓ Choice for Photo positive or Photo negative window inscription
- ✓ Auto reset / manual reset / First Up site selectable
- ✓ *System Healthy* indication by continuous flashing green LED on front facia
- ✓ Wide range of window sizes and configurations
- ✓ Fail safe logic for Hooter relay
- ✓ Maximum MTBF and minimum MTTR

SPECIFICATIONS

- Model** : Refer model selection chart
No of Points : Potential free contacts as per chart
Contact type : Make or Break to alarm individually selectable
Indication : Super bright Red LED's
Window intensity : Approx. 120 Lux
Window inscription : Photo positive or Photo negative
Flash rate : Slow -7 ; Fast -22 ; Faster - 40 flashes per minute
Output : Relay contact for Hooter
Power supply : 230 V AC, +/- 10 % , 50 Hz
System healthy : Continuously flashing green LED
Push Buttons : Test, Accept & Reset Inbuilt and also can be connected externally
Response time : 10 milliseconds
Operating sequence : ISA standard site selectable
 - **Auto Reset (factory set)** ■ Manual Reset
 - Auto Reset first up ■ Manual Reset first up
- Visible Distance** : Upto 50 meters
Facia size : Refer model selection chart (other on demand)
Mounting : Flush panel

Model Selection (Window Size)							
No. of points		4	6	8	12	16	24
Front Facia (Cutout)	96 x 96 (92 x 92)	Alert 3043 (35 x 25)	Alert 3063 (35 x 18)	Alert 3081 (35 x 16)	-	-	-
	192 x 96 (186 x 92)	-	-	Alert 6083 (35 x 35)	Alert 6123 (35 x 22)	Alert 6163 (35 x 16)	-
	288 x 144 (282 x 138)	-	-	-	Alert N123 (55 x 35)	Alert N163 (55 x 25)	Alert N241 (40 x 25)

Note -

- Please contact us for other din cutouts
- 32 & 48 points on demand.

ORDERING INFORMATION

Alert

X1

X2

X3

X4

Panel Cutout
 3 - 92 x 92
 6 - 186 x 92
 8 - 138 x 138
 N - 282 x 138

No. of Points
 04 - Four
 06 - Six
 08 - Eight
 12 - Twelve
 16 - Sixteen
 24 - Twenty four

Push Buttons
 1 - Connect
Externally
 3 - Test, Accept,
 Reset Inbuilt

Power Supply
 1 - 230 V AC
 2 - 110 V AC
 3 - 48 V AC
 4 - 24 V AC
 5 - 24 V DC
 6 - Other

Ordering eg. Alert 6083 - 1

Alarm Annunciator
 Panel cutout - 186 x 92 mm (6)
 No of point - Eight (08)
 Push buttons - Built in (3)
 Power Supply - 230 V AC (1)

ALSO SELECT
ESD ...

BACKEND

- ✓ Controllers
- ✓ Scanners with Controllers

SAME RANGE

- ✓ Mimic type Alarm Annunciators
- ✓ Hooter
- ✓ Audio Visual Hooter

FRONT END

- ✓ Automation Panels
- ✓ PLC



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