BINIX®
ELECTROSYSTEMS PVT. LTD.

FIRE ALARM SYSTEMS

⊙ MODEL ER 27

INTRODUCTION:

This fire, intruder, and temperature alarm system is specially designed to meet the safety requirements and to protect the unmanned equipment rooms from unpredictable events such as fire, unauthorized intrusion and unsafe room temperature. Under any of the above calamities, this integrated system generates separate audio-visual alarms and gives instant alert signal to the concern people so as to take the further action. Along with local alarms, this system provides remote alarms through PFC contacts and also provides digital signal / data through RS 232 port.

SYSTEM BASIC FEATURES

A FIRE ALARM

The control panel generates audiovisual alarm on receipt of trigger commands from fire sensor. Special tones are used to indicate the fire condition. This will alert the local staff so as to activate the fire fighting device or to take other appropriate measures.

B INTRUDER ALARM

Unmanned equipment rooms such as microwave stations or exchanges are monitored and protected from unauthorized entry. For this purpose magnetic door sensors are used to trigger the control circuit that generates the audiovisual alarm.

C TEMPERATURE ALARM

The room temperature is continuously monitored by control panel. For this purpose RTD sensor is used, that senses the room temperature and if it is exceeds the safe limit, system triggers the visual and remote alarms.

D REMOTE ALARMS

In additional to audiovisual local alarms, the control panel also trigger the relays that provides potential free contact for extension of individual alarm to central monitoring stations like switch center of cellular network

E DIGITAL SIGNAL / DATA ALRMS

In additional to remote alarms and local audiovisual alarms, this panel provides digital data for generated alarms through RS 232 port which can be directly interfaced with other communication equipment to central monitoring stations or switch center

SPECIFICATIONS

System configuration	
a] Fire zone	One
b] Fire sensor	Apollo ionization or optical sensor
c] Door sensor	Magnetic door sensor
d] Temperature sensor	RTD sensor
e] Front panel controls	Self Test switch for system check. Digital reset switch for fire alarm. Arm/Disarm key for intruder.Rocker switch for hooter mute

Audiovisual indications	
01] System on	Green indicator
02] Fire (each zone)	Flashing twin red LED & fire tone by internal speaker
03] Fire sensor open	Amber indicator & fault tone by internal speaker
04] Fire sensor short	Amber indicator & fault tone by internal speaker
05] System armed	Green indicator
06] Door open	Red indicator & beeper tone
07] Exit delay on	Red indicator & beeper tone
08] Temperature high	Red indicator
09] Supply fail	Amber indication
10] System fail	Red indication

ALARMS THROUGH PFC

All remote alarms are separately provided through potential free relay contacts. All relays remain normally open / normally close as per your requirement

Alarms through RS 232 port
1] Fire alarm zone 1
2] Fire alarm zone 2
3] Door open alarm
4] Room temperature high alarm
5] Fire sensor fail alarm
6] Input supply fail alarm (LO or HI)

Electrical specifications	
a] Operating supply	48 VDC
b] Power consumption	Min 2.0 W to Max 18 W
c] Operating condition	Temperature range : 0 to 50°C Relative humidity : 40 to 75 %

Mechanical specifications	
a] Panel size	H X W X D 300 X 240 X 90 MM
b] Panel weight	1.8 Kg. (excluding sensors)
c] Panel color	Off white with polycarbonate front sticker
d] Panel mounting	Vertical wall mounting