WARFAS

FIRE ALARM SYSTEM FOR WAREHOUSE

Long Range Smoke Beam Detector
LRSBD - 01
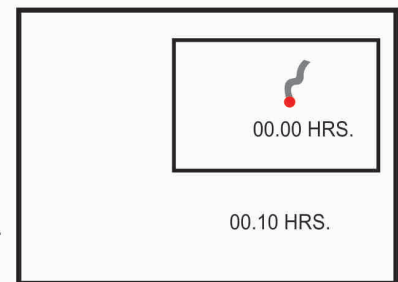
**Let the smoke
Not
Spoil your dreams**

FIRE IN A WARE HOUSE

IT STARTS SMALL....... WITH SMALL DELAY IN DETECTION

CAN LEAD TO DESTRUCTION

Smoke, the signal for fire if interpreted quickly minimise the damage caused by fire in many accidents. However the small fire gets unnoticed in many occasions or not captured properly thru the right type of detectors.

00.00 HRS.

00.10 HRS.

00.15 HRS.

- **How can you prevent a smoke (Fire)?**
  There is no magic method to prevent a fire but how quickly you can control is the key.

- **I already have the smoke detectors and have good suppression systems (Sprinkler / Hydrant)...**
  You are half way through! The immediate reaction to fight a fire greatly helps to avert damages, but most of the systems are found to be 'Static', not maintained or put into 'Fire Drill' at regular intervals.

- **How can one improve protection or reduce damages?**
  The best way is to have an 'Early Warning System' and 'Automatic suppression System' in addition to best practices.

BENEFITS

- Over comes the low concentration aspect of 'SPOT DETECTORS' as a 'VIRTUAL IR GRID' is formed

- Better in comparison to 'ASPIRATION DETECTORS' as the INTERRUPT POINT' is very near due to GRID function

- Long range capability. So less units - more value.

- Possibility to install in multiple angles to form a "CUBE" effect

- Addressability (Optional)

- Scalability (Optional)

- Intelligence to reduce false alarms due to process interruption, dust and bird disturbance

- Alert message to mobile (cell) phones

- Low maintenance

- Smoke pattern detection for weak, dense, multiple peak count, repeat spike, etc.,

The system consists of

Transmitter   -   To transmit the IR beam

Receiver   -   To receive the IR beam and set up a signal path

Control unit   -   The control unit which powers the transmitter and process the signal from the receiver to declare 'WARN', 'FIRE' and 'BLOCK' status

        -   Consists of a Touch Screen through which the user can program various parameters like sensitivity, count, interlock, etc.,

        -   With 0.1 sec as debounce if a smoke pattern fulfills the number of count it will raise an alarm. This feature is to sense smoldering smoke of weak density but high repetition.
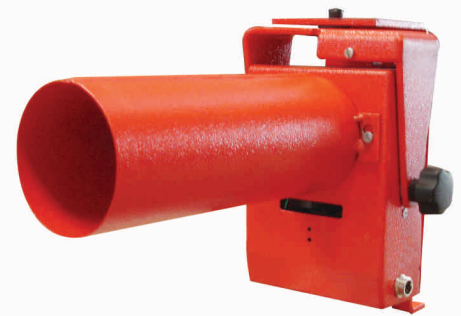
TRANSMITTER

RECEIVER

- Normal Signal
- Warning Signal
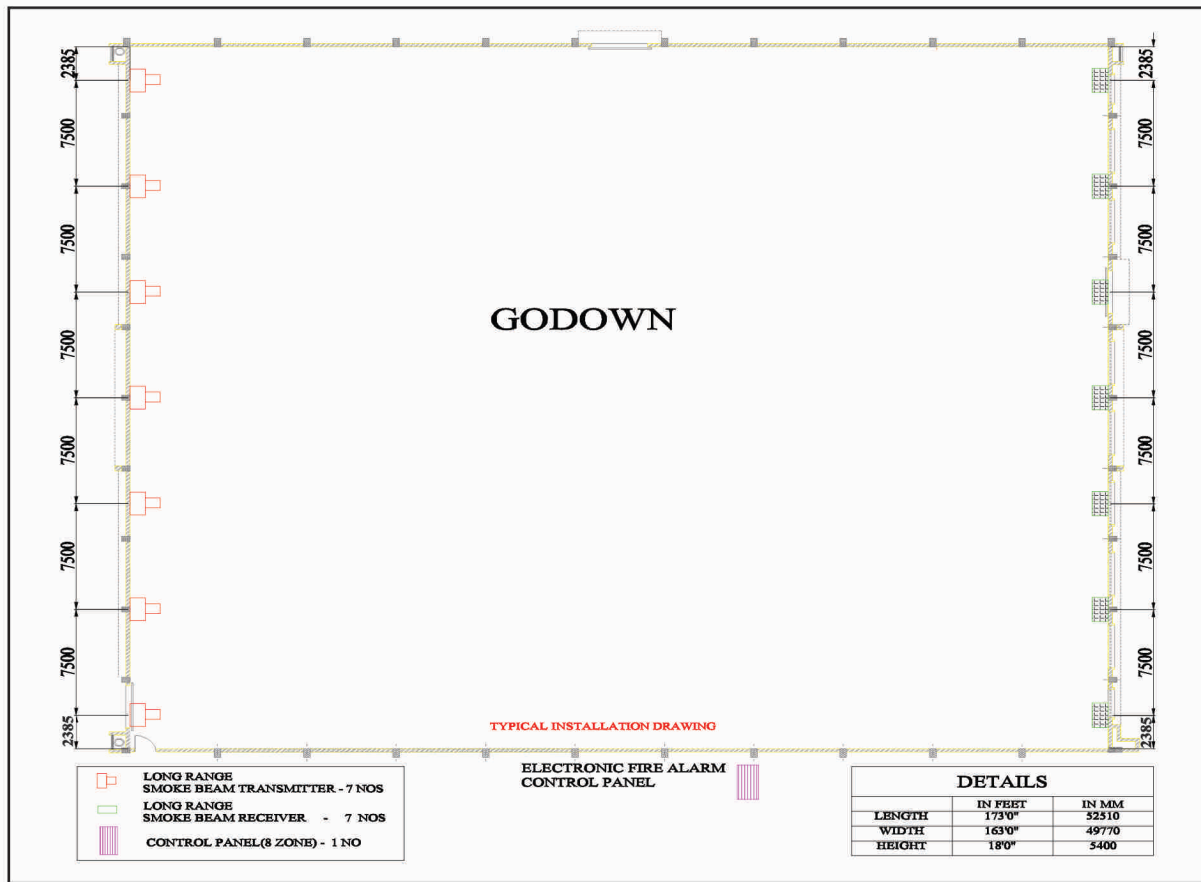- Fire Signal
- Beam Block Signal

Advantages

1. WARN - Warns the user giving time to choose consequent action manually

2. FIRE - Automatic fire condition. Triggers whatever connected to it - like extinguisher

3. BLOCK - Blocking or disturbing the beam by opaque objects for the selected time period will give a block signal.

4. INTERMITTENT SMOKE – An intermittent smoke wave that interrupt the beam in particular period with the number of intermittent smoke count will give a warn signal. It is used to reduce the false alarm due to birds and dust disturbance.

5. INTERLOCK - In case of fire signal receiving from associated Zone cards it will trip the connected areas from functioning.

6. Independent zones can be linked to any of the feed relays . The status of the independent zones can be viewed.

7. Password protection is provided for modifying the zone settings.

8. Auto clean provision for dust accumulation in glass front lens by air.

CONTROL UNIT

Technical Specifications of LRSBD

S.NO	PARAMETER	SPECIFICATION
1	Operating Voltage	180V-220V AC
2	No of Zones	8
3	Transmitter (Tx) & Receiver (Rx) type	IR
4	Operating Temperature	$20^0C - 50^0C$
5	Control Panel Weight	15 Kgs
6	Tx & Rx Unit Weight	2 Kgs
7	Control Panel Size L x B x H	310 x160 x 450 mm
8	Tx & Rx Size L x B x H	110 x 55 x 150 mm

GODOWN

TYPICAL INSTALLATION DRAWING

LONG RANGE SMOKE BEAM TRANSMITTER - 7 NOS
LONG RANGE SMOKE BEAM RECEIVER - 7 NOS
CONTROL PANEL(8 ZONE) - 1 NO

ELECTRONIC FIRE ALARM CONTROL PANEL

DETAILS	IN FEET	IN MM
LENGTH	173'0"	52510
WIDTH	163'0"	49770
HEIGHT	18'0"	5400

37 Years VETAL SINCE 1983