

Vetal, a 29 year old company offering inspection, detection & sorting solutions for problems faced in various industries.

Leaders in textile & food industry, has presence in most of the Asian Countries including Bangladesh, Thailand, Pakistan, Indonesia, Vietnam, China, Japan and few African Countries.

Technological advancement is quickly replacing the way business is done. To stay and succeed organisations are taking measures to simplify manufacturing, improve quality by eliminating impurities, increase safety and optimise production capability.

Vetal can support with customised solutions to realise better value in your business.

MACHINES + APPLICATIONS USING

- Infrared
- Ultrasonic
- NIR
- 3 Colour CCD
- X-Ray
- Electromagnetic
- UV Technologies

❖ Technology Leader ❖ Trusted Partner



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VETAL
THE TECH - Knowledge COMPANY



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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.



- 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.



Does your water system spray on fire or ash?

Most of the fire protection systems employed in ware houses is engineered with the gallons of water to suppress the fire. Elaborate arrangements of pipes running all over the area in length breadth and height deploying hundreds of sprinkler jets to flood the place operates late only to soak everything. Lack of proper early warning systems reduces the judicious usage of the water spray or other extinguishing systems. An effective mechanism to tackle fire incidence is a must to minimize the damages and maximize the recovery.

Transmitter & Receiver	Specifications
Transmitter	Laser Type
Receiver	Optical Sensor
Operating Voltage	12 V / 0.250 A
Indicators	Normal Operation : Green LED Alignment Status : Amber LED Smoke Status : Red LED
Sensing Range	1 to 100 Meter's



Control Panel	Specifications
Sensing Zone	16 Nos.
Zone identification	Individual
Control Panel	Micro control based with touch
Power supply	220 VAC ± 1% [UPS supply if required]
Current rating	1A Max.
Detector's to Panel	RS 485 Communications
Response Time	0 to 99 Sec.
Relays	Alarm; Fault
Operating Temp.	-10°C to 50°C
Alerter	SMS Message (5 Cell Phone No.)
Sensitivity Level	0 to 99



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WARFAS - 1000 FIRE ALARM SYSTEM FOR WAREHOUSE

Smoke detection by Laser Beam Detector



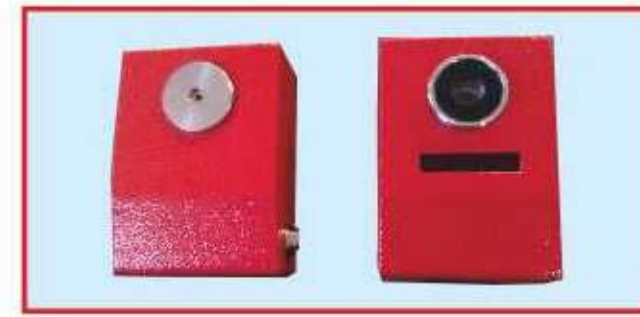
Let the smoke
Not
Spoil your dreams



TRANSMITTER

RECEIVER

Transmitter & Receiver	Specifications
Transmitter	Laser Type
Receiver	Optical Sensor
Operating Voltage	12 V / 0.250 A
Indicators	Normal Operation : Green LED Alignment Status : Amber LED Smoke Status : Red LED
Sensing Range	1 to 100 Meter's



ZONE PANEL



Control Panel	Specifications
Sensing Zone	3 Nos.
Control Panel	3 Zone panel
Power supply	220 VAC ± 1% [UPS supply if required]
Current rating	1A Max.
Detector's to Panel	Direct cable with 3 Level sensing
Response Time	Max. 15 Sec.
Relays	Alarm; Fault
Operating Temp.	-10°C to 50°C
Alerter	SMS Message (5 Cell Phone No.)

WARFAS-1000

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Laser Beam Detector FIRE ALARM SYSTEM Smoke Detection Redefined



TRANSMITTER

RECEIVER

TECHNOLOGY AND CONCEPT

The Laser Beam Detector is designed to form a cross matrix of laser beams which will travel in the pallet to pallet gap. A Laser transmitter will transmit the Laser light which will travel up to the receiver which will detect smoke crossing the laser beam. The algorithm will identify the smoke based on the duration and pattern of crossing. The smoke crossing will disturb the laser beam intersection which will identify the location of fire. Alarm of possible smoke will be generated in case of single beam cross and in case of dual cross, smoke alarm will be initiated.



SALIENT FEATURES:

- ▲ Laser Beam Technology is designed to cover all the individual pallet
- ▲ No detector is located between the pallet which makes the maintenance easy
- ▲ Since only the laser beam travels between the pallet, no damage is expected in case of fire and hence immediate recovery of Fire protection system is possible
- ▲ Maintenance can be done even when the warehouse is fully functional
- ▲ Option for addressable ejectors to quench fire is possible if required

