

## TrueSafe Ignis Beam Detectors

(Family - Fire)

### Product Description:

TrueSafe Ignis Beam Detector has built-in Laser beam point and a Digital guide display. It has a User-friendly alignment method. The Laser beam point accurately point to the exact location. The location where to mount mirror and with additional digital guide display allows to monitor and guide on the actual light intensity between the mirror and detector, The TIBD-100 has four adjustable operational ranges of as 8 to 20, 20 to 40, 40 to 70 and 70 to 100 meters beside three adjustable sensitivity settings range from 2.6dB, 3.8dB and 5.8dB to meet the specific environmental requirement. The TIBD-100 works on the principle of reflective infrared beam obscuration. Used in conjunction with a reflector, it will notify the fire alarm panel when The infrared beam is obscured by smoke.

### Product Photo



### Application:

- Warehouses
- shopping malls
- Exhibition halls
- Printing houses
- Museums
- Prisons

### Features:

1. EN54-12 Compliance
2. Hassle-free alignment, built with digital guide display and laser beam pointing
3. Employ single-ended design through the reflective mirror
4. Four ranges wide monitoring from 8-100 meters via encoder
5. Three users programming sensitivity adjustments
6. Built-in microprocessor
7. Self-diagnosis function can monitor for internal faults
8. Automatic compensation for factors weakening received signals, such as dust contamination, positional movement and ageing of the transmitter
9. Fire and Fault interfacing relays
10. Attractive and pleasing appearance
11. Real User-friendly alignment method

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## Technical Specifications

<b>General specifications</b>	
Operating Voltage	24 V DC
Current Parameters	Standby: 23mA Commission: 56mA Alarm: 33mA
Beam Sensor Sensitivity [via Encoder]	Level 1: 2.6 dB High Sensitivity
	Level 2: 3.8 dB Medium Sensitivity
	Level 3: 5.8 dB Low Sensitivity
Beam Pathway Length [via Encoder]	Span 1: 8 to 20 meters Limited Path
	Span 2: 20 to 40 meters Short Path
	Span 3: 40 to 70 meters Normal Path
Beam Path Angle	±0.4° Directional (This data takes the average of the left and right deflection angles.)
Alignment Guide	Laser Beam Pointer
Digital Display Guide	Nixie Tube
LED Indicator Guide	Red: Fire; Yellow: Fault; Green: Alignment
Reset Time	Less than 2 Second
Relay Capacity [Fire & Fault]	Normally Open & Close/ 2.0 A; 30 VDC
<b>Environmental specifications</b>	
Operating temperature	-10°C to +50°C
Ingress Protection Rating	IP30 [IP66 glue seal-For permanent fixing, Not EN54-12 approved]
Humidity	0 to 95% Relative Humidity, Non condensing
<b>Mechanical specifications</b>	
Material	ABS
Cable entry	Single cable entry gland provided
Dimensions	L:190.87 x W:126.87 x H:91.96 mm
Mounting	ST4x30 screws
Weight	440 gm
<b>LED indications and output signal</b>	

# TIBD-100



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LED indications	Red: Fire Yellow: Fault Green: Alignment
Output	Fire and Fault
<b>Certifications</b>	
	EN 54-12:2015 - Compliance BS 5839 Part 1:2017 - Fire Detection and Alarm Systems
<b>Warranty</b>	
	1 Year
<b>Models and Variants</b>	
	TIBD100
<b>Abbreviations</b>	
	TI-TrueSafe Ignis, BD- Beam Detector, 100-For 100 meter range

Datasheet version with the date (17.08.2021)



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Vignaharta Technologies Pvt. Ltd.  
(formally known as Realty Automation and Security Systems Pvt. Ltd)  
[www.Vignaharta.in](http://www.Vignaharta.in)

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