Flame Detector   *AlphaEye* ™

General

High Sensitivity Triple Infrared (IR3) Flame detectors, provides detection of fires from light to heavy hydrocarbon fuels combined with the highest degree of false alarm rejection. A truly versatile detector for today's demanding industrial requirements, with range up to 60 m (200 feet) for the detection of a 0.1 m2 (one square-foot) Heptane reference fire and has a very good cone of vision in volumetric coverage.
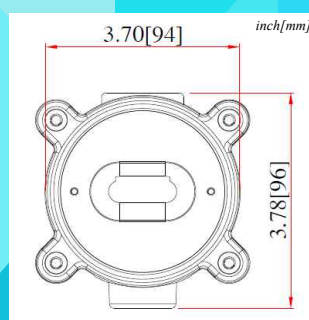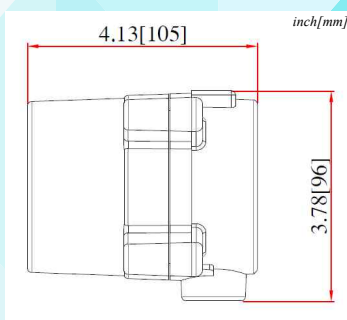
IR3 Flame Detectors providing an efficient alternative to smoke and heat detectors often proven to be ineffective.

IR3 Flame Detectors have explosionproof ratings and are suitable for use in indoor and outdoor

[Certifications/Approvals]
FM3260, IECEx, KFI, KGS, ATEX, NEPSI

Applications

- Refineries and Tank farms
- Gas Stations
- Automotive industry
- Power plants,
- Warehouses
- Chemical plants
- Paint and Solvent storage
- Aircraft hangers,
- Aerospace industry,
- Onshore oil and gas installations,
- Malls,
- wood stores,
- underground tunnels
- arc welding workshops

Featurs &Benefits

- Low power consumption
- Quick Response Time: < 5 sec
- Intrinsically safe
- Compact design
- Cost effective
- Low weight load
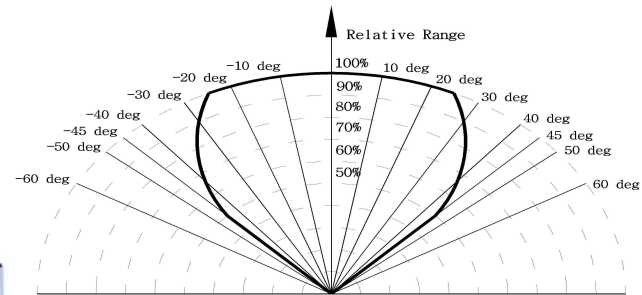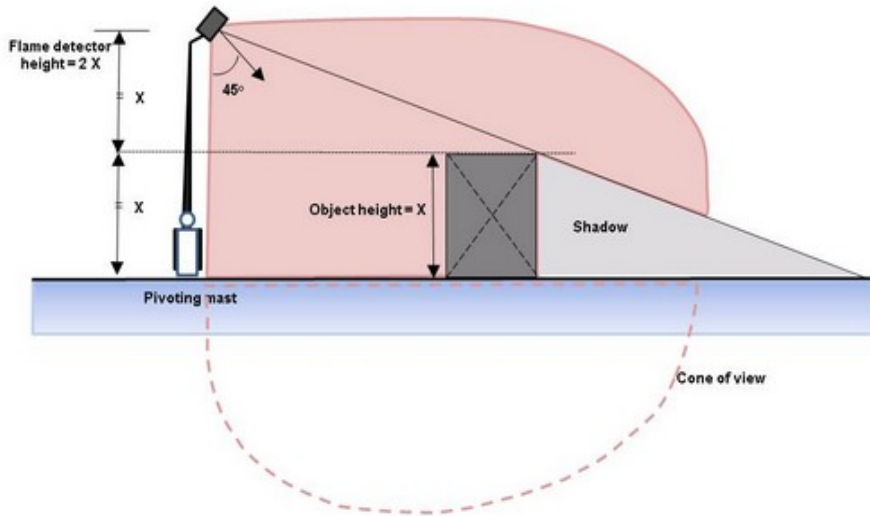
General Dimensions

inch[mm]
4.13[105]
3.78[96]

inch[mm]
3.70[94]
3.78[96]

General Specifications

Detection Range:	up to 60Meters (n-Heptane)
Field of View:	90° horizontal / 90°vertical (an extra wide field of view up to 120°)
Response Time:	< 5 sec
Temperature Range:	• Operating: -40°C to +75°C • Storage: -50°C to +85°C
Enclosure Type IP Rating:	IP66
Enclosure Material:	RED powder coated Aluminum
Voltage Range:	24 Vdc (18 – 30 Vdc) - regulated
Electrical Specifications:	**during detection** of fire or self-diagnosis test • Max Consumption Power: 3W (@24VDC) • Normal Average Current: 100mA (@24VDC) • Max Operating Current: 125mA **Output Relay** • Fire Alarm: SPDT (NO/NC) -De-energised/energized, latching/non-latching • Fault: SPST (NO) – De-energised, latching/non-latching • Contacts rating: 2 amp @ 24 Vdc • Dry contact: A (Normally Open) or B (Normally closed) **RS485 Communication** • Non-isolation output (2 wiring) • Communication Speed: 9600 bps
Visual Indicator	• Power: **Green** LED (Normal) • Alarm: **Red** LED • Fault: **Yellow** LED (Power supply fault/ blinking 2Hz)
Wiring	2.5 mm2 (14 AWG) to 0.326 mm2 (22 AWG) shielded cable recommended
Relative Humidity:	0-95%
Hazardous Area Certifications:	ATEX/IECEx: II 2 G Ex db IIB +H2 Gb T6 Ta: -40 to +75°C
Shipping Weight:	Detector - 1.4 kg Bracket- 1.25 kg (option)
BIT (built-in-test):	Function Fire and Fault Relays False Alarm immunity
Conduit Entry:	1 x 1/2-inch PF or M20
EMC Protected	Yes

False Alarm Detection Range

Radiation Source	Immunity Distance ft(m)
Reflected sunlight	No fire alarm
Incandescent lamp 100W	No fire alarm
Fluorescent light 40W	No fire alarm
Resistive electric heater 1500W	No fire alarm
Blue, Green dome light XXXW	No fire alarm
Halogen lamp 500W (Glass)	No fire alarm
Halogen lamp 1000W (Quartz lamp)	No fire alarm
Grinding metal	3.3 (1)
Arc welding (5mm, 200A)	16(5)

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Installation Design

Accessories

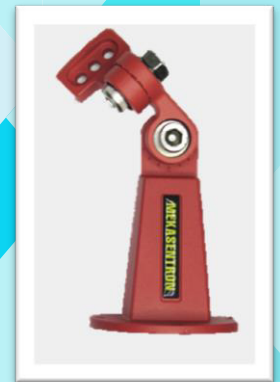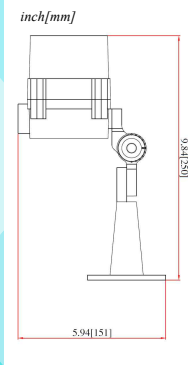## Test Lamp TLX300

Explosion Proof : EX d IIB, T6, IP65 KGS
Dimension : 13 x 15 x 23 cm
Operating Distance : Max. 5m
(Distance may vary depends on the model)
Operating Time : Max. 100minutes
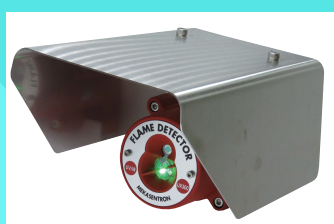Weight : 3Kg
Material : Aluminium

Bracket MB-01

Adjustable Angle :	Horizontal & Vertical 180 degrees each
Material :	Aluminium
C o l o r :	RED
Weight :	0.3Kg
Dimension :	94 x 151 x 250mm

Sun Shield MS-01

Material : Steinless Steel

Weight : 0.746Kg

This sun visor will protect the detector from sunlight and rain

Air Shield / Air Jet MA-01 / MA-02

Continuously spray into flame detector window and keep it clean.
Suitable at contaminated areas such as dust or greasy places