12V/4-Wire Fire Detectors with Built-in Exodu's 4W Senies

PHYSICAL

Relay for Connection to Security Panels

INSTRUCTIONS

4-WIRE OPTICAL SMOKE & HEAT MULTISENSOR OH/4W

> 4-WIRE FIXED 64°C HEAT DETECTOR FT64/4W

4-WIRE RATE OF RISE
HEAT DETECTOR

4-WIRE FIXED 90°C HEAT DETECTOR FT90/4W



INS 243-3

QUALITY ASSURANCE



BSIA

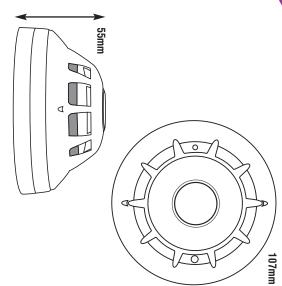


WARRANTY

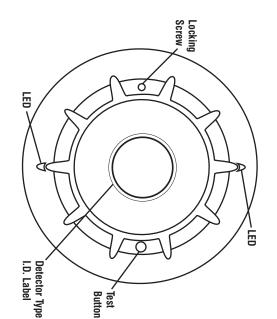
5 year replacement warranty

damages whatsoever based on a claim that the Exodus 4W Series failed to function but only a part therof, Texecom cannot accept responsibility or liability for any National Standards where applicable. correctly. These instructions are intended as a guide only, always consult Local and an alarm control panel. As the Exodus 4W Series is not a complete alarm system, The Exodus 4W Series is designed to detect the presence of fire and activate

change specification without prior notice. Due to our policy of continuous improvement Texecom reserves the right to



INDICATORS & CONTROLS



ENVIRONMENTAL



Packed Weight: 200g (7oz) approx.

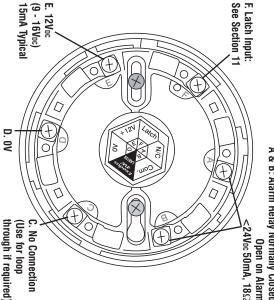
Storage lemperature:

-20°C (-4°F) to +80°C (+176°F)

Normal Operating Temperature (i.e. non alarm state): $-10^{\circ}\text{C (+14^{\circ}\text{F) to } +55^{\circ}\text{C (+131^{\circ}\text{F) (0H/4W, RR/4W, FT64/4W)}}} -10^{\circ}\text{C (+14^{\circ}\text{F) to } +80^{\circ}\text{C (+176^{\circ}\text{F) (FT90/4W)}}}$

5 CONNECTIONS

A & B: Alarm Relay Normally Closed Open on Alarm <24Voc 50mA, 18Ω



(photo-electric) detection. Both of these technologies on their own suffer Historically, smoke detectors have used either ionisation or optical

PROBLEMS WITH 'IONISATION ONLY' DETECTORS

health concerns over the use of radioactive sensors leads to false alarms. Additionally, there are increasing environmental and a slow smouldering fire. They are also very sensitive to fumes which often 'lonisation only' detectors have a poor response to large smoke particles e.g

to false alarms is a concern. Texecom's advice is: do not fit 'ionisation only' detectors where susceptibility

have their sensitivity increased. This can lead to false alarms Optical only' detectors do not react well to fast flaming fires and so often

CHOOSING A DETECTOR

Detects: **OPTICAL SMOKE & HEAT MULTISENSOR** Exodus OH/4W

1. Large smoke particles e.g. from smouldering

increase e.g. from fast flaming fire. Small smoke particles AND a small temperature

Suitable For:

Fast fire detection in smoky or dusty environments

2. Temperatures above 58°C (136°F). Rapid increases in temperature OR

e.g. bars or attics, where normal temperatures do not

Detects:

RATE OF RISE HEAT DETECTOR Exodus RR/4W

Does not alarm on heat only

Suitable For:

Fast detection for widest range of fires. Gives ionisation or optical only. improved false alarm immunity compared to

Not Suitable For: Environments where the temperature might change

exceed 38°C (100°F).

rapidly, e.g. kitchens, bathrooms

Not Suitable For: Smoky, dusty or steamy environments e.g. kitchens

Designed to comply with EN54-5 Grade A1/R Label colour: Green

Designed to comply with EN54-7

Label colour: Blue

64°C FIXED TEMPERATURE HEAT DETECTOR Exodus FT64/4W

Temperatures above 64°C (147°F).

Suitable For:

Detects:

Fire detection in smoky environments where rapid exceed 44°C (111°F). bathrooms, where normal temperatures do not temperature changes might occur e.g. kitchens

Not Suitable For: Fast detection of slow burning or smouldering fires. 44°C (111°F). or for use where the normal temperature exceeds

Designed to comply with EN54-5 Grade A2/S Label colour: Orange

S FALSE ALARM PROTECTION

Design:

Microcontroller based signal analysis.

RF Immunity:

Electronic drift compensation

No false alarms from 80MHz to Complies with BS EN 61000-4-3:1997 1GHz at 10V/m

No false alarms up to 8kV. Complies with BS EN 61000-4 -2:1995

Electrostatic Discharge:

Fast Transient Immunity: No false alarms up to $\pm 4kV$ Complies with BS EN 61000-4-4:1995.

High Energy Transient

No false alarms up to $\pm 2kV$. Complies with BS EN 61000-4-5:1995.

Susceptibility: Conducted RF

Complies with EN 55022 Class B. No false alarms at 10Vrms. Complies with BS EN 61000-4-6:1996. Complies with EN 55022 Class B.

Independently certified to EN 50130-4:1996

Radiated Emissions: Conducted Emissions:

IMPORTANT FACTS TO CONSIDER BEFORE CHOOSING THE TYPE OF SMOKE OR HEAT DETECTOR

PROBLEMS WITH 'OPTICAL ONLY' DETECTORS

To achieve maximum false alarm immunity and excellent fire detection lexecom recommend the use of optical smoke and heat multisensors or heat

90°C FIXED TEMPERATURE HEAT DETECTOF Exodus FT90/4W

Temperatures above 90°C (194°F)

Suitable For: Environments where temperatures up to 70°C (158°F) occur normally e.g. boiler rooms.

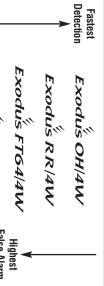
Not Suitable For: Fast detection of slow burning or smouldering fires

Designed to comply with EN54 Grade C/S Label colour: Red

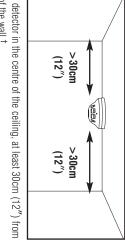
CHOOSING A LOCATION

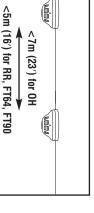
detector should be fitted for each level, usually in a central location e.g. hall choosing a suitable location. In a typical domestic installation at least one

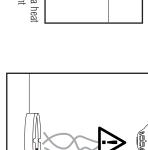
In commercial installations at least one detector should be installed for each



In larger rooms fit a smoke detector at least every 7m (23') or a heat additional detectors may be required. detector at least every 5m (16'). Where obstructions are present







For heat detectors do not install close to natural heat sources (e.g. above a cooker or fire place)

Using the ceiling ring as a template mark out the position and drill two holes. When fitting to suspended ceiling tiles it may be helpful to place a piece of wood above the tile to screw into.

Supporting

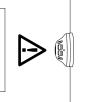
FIXING THE CEILING RING

For optical and heat mutlisensors do not install near sources of

(e.g. from cigarettes)

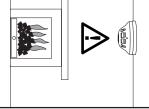
steam, condensation or smoke

Avoid Common False Alarm Sources



Ceiling Ring





Auto reset (detector automatically resets after

3. Invert SW+ by: in Engineer mode: @ 2, 8, PROG

enter USER CODE and press (RESET).

panel use a normally high output pulsed low to reset: To obtain latching operation with a simple user reset on a Texecom Premie.

1. Connect 'Latch' on the detector to a programmable output on the panel

of a fire until it has been reset. Always ensure detectors are reset following an A latched detector is held in alarm state and cannot signal a new occurrence

is taken momentarily low)

alarm until power is removed or the Latch Input

Latching (after a detection the unit will stay in

activation. Instruct the end user accordingly

- 2. Program the output to be either "Detector Reset" or "Sensor Reset on

To obtain latching operation with a simple user reset in a Texecom Veritas

- enter ENGINEER CODE, (PROG), (0 (8), (3), PROG

- 3. Programming the zone attribute to be 'zone warning' will cause the panel to produce a warning tone if any detectors are left in the latched state.

- 1. Connect SW + on the panel to Latch Input on the ceiling ring
- 2. Program SW+ as 'Latching sensor auto reset':
- Exodus detectors will now latch on detection. To reset a latched detector
- Reset", refer to the *Premier* Installation Manual for more details

Always refer to local guidelines for test requirements and strategies.

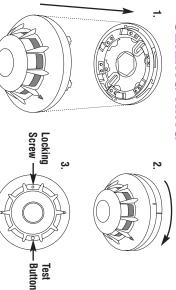


reset after testing. Detectors should be tested on a regular basis.† Ensure latching detectors are

around the outside of the mesh (do not dismantle the detector). If this fails to cure the problem, the detector should be replaced. 2 seconds. In these circumstances remove the detector head and vacuum occurs or the micro fails its automatic self test then the LED will blink every scatter signal due to contamination e.g. dust build up. If excessive dust In normal operation the detection LEDs blink momentarily every 8 seconds The microprocessor automatically compensates for a gradual increase in

Suspended Ceiling Tile Positions Screw Fixing

P FITTING THE DETECTOR TO THE CEILING RING



- 1. Push the detector upwards against the ceiling ring
- 2. Rotate the detector clockwise until it clicks firmly into place.
- 3. To prevent removal, lock the detector head in place by turning the hexagonal key hexagonal locking screw clockwise several times, using a 1.5mm

CAUTION:

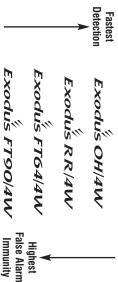
- 1. Never paint the Exodus detectors. Always instruct the end user not to paint the detectors, and ensure that they remain dust free
- Excessive dust build up can lead to increased sensitivity and false alarms Be sure to uncover or replace the detector on completion. Instruct the enc the effects of dust build up however excessive exposure should be avoided. Always cover or remove the detector during any building work The *Exodus OH/4W* incorporates electronic drift compensation to reduce
- † Always refer to any local or national standards (e.g. BS 5839-1) for requirements and recommendations.



Always refer to any local or national guidelines (e.g. BS 5839-1) when

area to be protected

Always use the most suitable detector for the environment (see Section 7).



Exodus FT90/4W

WIRING

T LATCH INPUT

The Exodus 4W Series can be configured as either auto reset or latching

depending on how the Latch Input is wired.

10

Connect to a 24hr fire zone on panel

Section 5 for connections.

The Exodus 4W Series are designed for connection to a security panel. See

removal of detector or test passed. Normally closed relay, open on detection of fire, loss of power,

No connection (can be used as 'loop through')

+12V:

No Connection or OV:

the smoke or heat has gone).

Latch Input:

- D: 0V E: +12V supply on panel Connect to 12V auxiliary power
- W Latch Input (see Section 11)

3 REMOVE DUST COVER BEFORE COMMISSIONING

12> COMMISSIONING & TESTING

The Exodus 4W Series comes fitted with a

and dirt getting into the detector and affecting protective dust cover. This is to prevent dust the sensitive electronics. The cover should be kept in place during installation and while any

Locking Screw

Test Button



is made operational



