

PRODUCT DATA SHEET

Smoke Alarm

EIPFS3105TYCH - Photoelectric

9 Volt Primary Lithium Power with Hush and Interconnect



- Suited to smouldering fires.
- Lithium 10 year battery to provide long lasting life
- No changing of battery required - soldered into the printed circuit board
- High performance optical chamber with integral insect screen
- Advanced suppression and calibration technology
- Built-in auto test facility
- Hush Button and Test button
- Simple 2 core wiring for interconnection
- Low battery warning
- Built in sounder
- Interconnect up to 20 other TY series alarms
- Accredited to AS3786 - ActivFire Listed
- 5 year guarantee (Limited)

Applications

The non removable battery is designed to last up to 10 years - so there are no batteries to replace. This makes this the EIPFS3105TYCH ideal for applications where the occupant wishes to avoid the worry of replacing batteries, or where battery removal by a tenant is of concern. Ideal for rental properties – no battery maintenance requirements.

Product Description

The EIPFS3105TYCH is a Photoelectric (Optical) Smoke Alarm that runs on a 9V 10 year lithium battery to provide a long lasting life. What makes the EIPFS3105TYCH different from other “so called” 10 year devices? - Its lithium battery is integrated into the alarm printed circuit board not just a plug in battery with some form of anti tamper device. In addition the battery is of a type not used in other household appliances; therefore the temptation to remove the battery has itself been removed.

The EIPFS3105TYCH is easily installed and comes supplied with all necessary screw fixings. Unlike its 230 volt equivalent it does not require the services of a licenced electrician, a significant cost saving.

The EIPFS3105TYCH is particularly useful near kitchens as it is less affected by cooking fumes. The hush button will silence nuisance alarms from cooking etc, if they occur, for 10 minutes.

The EIPFS3105TYCH has an advanced high performance optical chamber fitted with integral insect screens to reduce the effects of insects and debris build up which may cause false alarms.

Optical smoke alarms use the light scatter principle to detect smoke particles entering the optical chamber within the alarm. Photoelectric (Optical) smoke alarms are most suited to fires producing visibly dense smoke, typically given off from smouldering bed linen, plastics, and fused electrical appliances.

Visibly dense smoke, which also contains toxic fumes, impairs the occupant's ability to see and make their way to an exit. The design standard AS1670.1 mandates the use of photoelectric smoke detection in all sleeping areas and paths to an exit.

The EIPFS3105TYCH has the ability to interconnect up to twenty TY series alarms to allow all alarms to sound if just one of the interconnected alarms should be triggered. Interconnecting all alarms

significantly increases the audible warning provided and the chances of waking sleeping occupants. This provides early warning throughout the building, no lost time while the fire threat grows.

The EIPFS3105TYCH has built in circuitry to aid suppression of RF interference to further reduce the chances of false alarms; as well it has soldered alarm sounder contacts to prevent sounder failure due to pressure fit contact corrosion, an identified source of occupant warning failure.

Operation

- The test button will flash red every 40 seconds to show that the detector has performed an automatic self test
- The red indicator will flash rapidly to show an alarm condition for the smoke detector
- The "Test/Hush" button will either silence false alarms or perform a unit self test
- In "Test" mode the alarm will perform a self test and sound the horn
- Interconnect up to 20 other alarms (EIPFS100TYC and EIPFS3105TYCH). When interconnected an alarm in one sensor will trigger all other interconnected alarms within one second (only the triggered alarm will flash a red indicator). Interconnection helps ensure that the warning will be heard throughout the Dwelling.
- At the end of its service life (10 years+) the EIPFS3105TYCH will emit a beep every 40 seconds to indicate that the battery is depleted and the unit needs replacing.

For further details see the operator and installer manuals

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Technical Specification

Sensor:	Optical, uses light scatter from smoke (Note: Sensing chamber meets the 25mm stand-off installation requirements of AS1670.1 and AS1670.6)
Ambient Light:	Chamber housing and compensation overcomes possible problems due to stray light
Sensitivity:	Complies with AS 3786 (Nominal 10%Obs/m)
Source:	Contains NO radioactive material
Airspeed:	Essentially immune to the effects of airspeed
Test Facility:	Simulates the effect of smoke and checks electronics and horn
Automatic Self-Test:	Smoke chamber is tested every 40 seconds and unit beeps (without LED flash) if the sensor is de-graded
Insect Screen:	1mm diameter stainless steel mesh mitigates insect and debris entry into the smoke chamber.
Supply:	Integrated 9 Volt 10 year lithium battery
Power 'ON' Indicator:	Test button flashes every 40 seconds
Low Battery Warning:	Beeps every 40 second when the stand-by battery reaches its depletion threshold
Alarm Sounder:	Integral electronic piezo horn.
Alarm Sounder Connection:	Piezo contacts are soldered to prevent failure due to contact corrosion over time – enhanced reliability.
Alarm Sounder Output:	85 dB (minimum) at 3m.
Alarm Status Indicator:	Red LED flashes every second on device sensing fire.
Temperature Range:	0°C to 40°C
Humidity Range:	0% to 90% Relative Humidity.
Conformal Coating:	Wax coating applied to PCB to mitigate the effects of contamination
Interconnection:	Up to 20 TY series smoke or heat alarms may be interconnected. (NOTE: Do not interconnect to other manufacturer's devices)
Fixing:	Fixing hardware supplied.
Enclosure Material:	UL94VO flame retardant.
Dimensions:	140mm x 120mm x 45mm depth.
Weight:	281g
Warranty:	5 year (limited) warranty
Approvals:	<i>Australian</i> - Certified to AS3786 CSIRO afp 1692 <i>International</i> - Kitemarked to BS5446-1:2000, CE Approved

Specifications subject to change

Accessories

BAALOC – Alarm locator module