



## Product Sheet

# Universal Sensor 869

Connecting devices, empowering care and monitoring

### What is it?

The **Tunstall Universal Sensor** allows multiple hardwired devices to connect to a Lifeline home unit or other Tunstall telecare-enabled systems. It uses radio signals to send wireless alarm calls, ensuring quick and reliable alerts. In addition, the device can also function as a window or door contact sensor to monitor activity and inactivity cases.

The device enables wired devices and equipment to raise alarms or send activity data to the Care hub either via RJ11 or 3.5mm connection.

### Who is it for?

With its wide range of use cases, the device can be easily adapted and personalised to meet the needs of end users, whether it is used with sensors, or on its own, supporting both older adults and people with disabilities.

### How does it work?

The **Universal Sensor 869** connects a wide range of devices to Tunstall Lifeline units. By leveraging the Lifeline device's onboard processing capabilities, it can enable activity and inactivity-based alarms, collect data for analysis, and integrate with other sensors to deliver smarter, time-controlled applications.



## Technical Specifications

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| Weight              | 70g (without attachments)                               |
| Dimensions          | 50mm, 74mm, 25mm<br>(W x H x D)<br>without attachments  |
| Battery             | 3.6V AA EVE ER14505V Battery                            |
| Battery lifetime    | Up to 5 years depending on usage**                      |
| Radio frequencies   | 869.2125 MHz                                            |
| Range               | At least 30 meters indoors                              |
| Environmental Group | Group 2 - Indoor in general                             |
| Radio encryption    | AES 128-bit (NIST-level)                                |
| Radio protocol(s)   | Tunstall 2-Way Secure Radio,<br>Tunstall Classic Radio. |
| Region              | Europe & United Kingdom                                 |

## Environmental

Temperature +5°C to +40°C (Recommended)

## Standards

|                                             |                                                                                                               |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Directive Compliance                        | RED, EMC, RoHS3, REACH                                                                                        |
| Safety                                      | EN 62368-1:2024 + A11:2024                                                                                    |
| EMC                                         | EN 301 489-3 V2.2.1: 2019<br>EN 55032:2015 + A1:2020<br>EN 50130-4:2011 + A1:2014                             |
| Alarm Systems                               | EN50134-2:2017                                                                                                |
| Radio                                       | EN 300 220-3-1 V2.1.1:2016<br>EN 300 220-2 V3.2.1:2018<br>EN 62311:2020<br>EN 18031-1:2024<br>EN 18031-2:2024 |
| Design, manufacture, installation & service | ISO9001:2015                                                                                                  |
| CE, UKCA, UKNI compliant                    | Yes                                                                                                           |

## Part Numbers

|           |                                                                 |
|-----------|-----------------------------------------------------------------|
| 62505/030 | Universal Sensor 869<br>2-Way Secure / Classic AP / Classic ALB |
| S1004055  | Battery Service Kit                                             |

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## Features

### 1. Alarms from hard wired devices:

The Universal Sensor can connect to a wide range of products, enabling hard wired devices to communicate via radio to Tunstall systems. It supports input types:

**RJ11\*** - Examples included:

**Enuresis** - Connects to an enuresis mat or sheet. An alarm is triggered when moisture is detected.

**Smoke Detector** - Connects to third-party products. If smoke is detected the sensor sends an alarm call

**CO Detector** - Connects to third-party detectors. Sends an alarm call if carbon monoxide is detected.

**Gas Detector** - Connects to either Tunstall or third-party detectors. Sends an alarm call if natural gas is detected.

**Pendant** - Allows third-party alarm triggers to communicate with Tunstall Hubs.

**3.5mm Jack\*** - Example:

This can be configured to send pendant radio messages from third party product such as a Jellybean button or a Grasp switch.

### 2. Stand-alone products

**Bed Occupancy sensor** - Works with compatible bed or chair mats. Generates an alarm call if "not in bed" or "not out of bed" limits are reached. Includes a deactivation mode for up to 1 hour.

**Door Guard sensor** - Monitors door openings within preset times. If the door opens during these times, an alarm is triggered. Includes a deactivation mode (up to 1 hour) to allow access without triggering an alarm.

### 3. Events

Allows simple radio messages to be sent in the event of the sensor being triggered using the following modes:

**Virtual Bed sensor** - Works with the Tunstall Hub's Virtual Sensor feature, providing in/out of bed alerts for activity monitoring.

**Door Contact sensor** - Sends door open/close data to support wellbeing and activity monitoring.

*\* Responsibility for suitability and relevant standards compliance lies with the service provider.*

*\*\* Transmissions and activity can change the battery life significantly.*