Elpas Solutions Ltd.

FCC ID:O4X5-LW2430370
IC:1467G-5LW2430370

Operational description

The Elpas Shield - Lone Worker Active RFID Tag (LWA) is a personal duress button device with optional pull cord and fall detection capabilities. Elpas Shield is designed for real-time monitoring and tracking of staff members and visitors, both indoors and outdoors. The Lone Worker Fall Detect Transmitter is designed both for seniors in assisted living facilities or work place staff members that may be subject to attack or injury in high-risk environments.

Alarms can be triggered either by squeezing the two side buttons. In the Fall Detect version, when worn on a belt, a short rip cord may be attached to a belt loop so that an alarm is transmitted when the device is pulled off the belt.

The device has two models: 5-LW243037-0 and 5-LW242057-0.

These two LWA variants have each a 433.42 MHz transceiver with GFSK modulation and a 125 kHz ASK receiver. The EUT model 5-LW243037-0 has also an IR transmitter

The transmitters are activated either upon pressing the products push button or automatically activated by tilting the product (which we call "person fall detect").

The EUT is powered from 3V internal battery.

Specifications	
RTLS Technologies	IR (Reception, 800nm) RF (433 MHz) LF (125 kHz)
RF (Motion/Stationary)	Supervision messages every 30secs /60secs
IR (Motion/Stationary)	Supervision messages every 5secs /60secs
RF Upon Entry into LF area	6 RF transmissions (each transmission @ 4ms in duration), 312.5ms apart
IR under LF	Does not transmit
Event Messages: Button Press/Release, Low Voltage	3 RF transmissions (each transmission about 4 ms in duration), 312.5ms apart
Power Source	CR2450 Lithium battery 620 mAh/2V
Management Software	Eiris V4.8 or higher