Elpas
Active RFID/RTLS Solutions

Active Identity Badge

Description

The Elpas Active Identity Badge is an Active Radio Frequency Identification (RFID) and Infrared transmitter; designed to look like a standard photo ID badge. The badge is intended for the protection of healthcare workers and visitors that may be at-risk of attack or injury in medical environments.

The badge's unique form factor makes it usable as a clip-on photo ID personnel badge. Alternatively, when inserted into its corresponding card holder (sold separately), the badge may be bundled with ISO standard credentials and user worn either horizontally (landscape format) or vertically (portrait format).

The Elpas Active Identity Badge emits RF (433MHz) as well as supplemental IR (800nm) messages. This data enables the real-time visibility of staff personnel down to bed-level precision without EMF interference to medical equipment, which then can be used by Elpas Safety & Security Solutions or 3rd party hospital management systems. The also badge features two call-buttons for staff duress alerting or the transmission of preconfigured status messages plus a LF (125 KHz) receiver that enables real-time near exit staff/visitor detection for escort applications.

Optionally, the badge is designed for use as an electronic proximity key for doors protected by VisAccess Tag-in-a-Bag, AXS-10, AXS-100/200 access control systems as well as other EM4100-compliant or Wiegand 26-bit compatible solutions.

The Elpas Active Identity Badge is housed in an IP66 water-rated enclosure which may be cleaned with medical grade, non-alcohol based disinfectants and is powered by one field-replaceable lithium battery.

Standalone Badge Configuration

Open-Front Card Holder Configuration

Product Features

Triple RF, IR and LF signaling technologies

No EMF interference with medical equipment

Photo identification name labels

Distinctive form factor

Horizontal/Vertical formatted card holder

Two customizable signaling buttons

Low battery/device transmission LED indicator

Shock-proof IP66 water-rated outer casing

EM 4100 proximity card compliant

Field-replaceable lithium battery

CE FCC, IC compliant

Applications and Uses

Real-time personnel and/or visitor visibility

Personnel and visitor identification

Caregiver location finding

Near exit patient escort options

Wireless emergency/duress signaling

Hands-free access control

Efficiency and response reporting

Elpas Active Identity Badge – Confidential Technical and Product Specifications

Technical Specifications	
Signaling Technologies	RF (433.92 MHz)....IR (800nm)….LF (125KHz)
RF: (Motion/Stationary)	Supervision messages every 10 seconds/ 60 seconds
RF: (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds (after 1 hour)
IR: (Motion/Stationary)	Supervision messages every 10 seconds / 60 seconds
RF Upon Entry into LF area	Burst of 3 messages (each lasting about 2 ms) with intervals of between 250 and 400ms, randomized, and the total burst time not exceeding 1 second
RF Range	Up to 200 meters / 656 feet in open areas (360° coverage area)
LF Sampling	Every 250ms
RF under LF	2 seconds; after 10 minutes, returns to 10 seconds /60 seconds (motion/stationary)
IR under LF	In Motion: 10 seconds Stationary: 60 seconds
LF Timeout	Transmits burst of 3 non-LF messages when LF signal is not received for approximately 2 seconds
Time to Idle	10 seconds
Events: Button Press/Release, LF, Tamper Low Voltage, Motion/Stationary	3 IR/RF transmissions (each transmission about 2 ms in duration), 400 ms apart
Power Source	3V/600mAh Lithium Battery, type: CR2450
Average Battery Life Assuming the badge is in-motion 9 hours per day 7 days per week	With Optional IR Transmitter: 1.8 years Without Optional IR Transmitter: 3.0 years
Red LED Indicator	Low Battery: Flashes once every 10 seconds Upon Entry into LF Area or Exit out of LF Area: Flashes twice Button Press/Release: Flashes once
Badge ID	Unique factory-programmed ID
Proximity Specifications	
Card Standard	EM 4100 compliant
Operating Frequency	125 kHz
Typical Working Range	Up to 30cm (11.8 inches) – actual range depends on proximity reader type
General Specifications	
Construction	Black ABS polymer plastic
Dimensions (H x W x D)	5.0 x 8.3 x 0.9 cm (2.0 x 3.27 x 0.35 inches)
Weight (assembled)	32 grams (1.128 ounces)
Operating Environment	Temp: -10°C to 70°C (14°F to 159°F); humidity: 100% non-condensing
Housing	IP66 water-rated enclosure
Remote Management	EIRIS 4.5 (or higher) enterprise software
Compliance Standards	**FCC:** 04X5-PBA00433………**IC**: 1467G-PBA00433 **CE:** EN 60950-1, IEC 60601-1, EN60601-1EN 300 220-1 and EN 300 220-2
Warranty	1-year limited warranty (excluding battery)

All specifications are subject to change without notice.

Ordering Information

Part Number	Description
5-PBA00433	Active Identity Badge, WP, IR/RF/LF, 433MHz, 10/10/60
5-PBA00433-1	Active Identity Badge, WP, RF/LF, 433MHz, 10/60
5-PBA00433-3	Active Identity Badge, WP, RF, 433MHz, 10/60 (for Elpas Door Kit)
5-PBA09001	Dummy Active Identity Badge

Selected Compatible Accessories

Part Number	Description
5-PBA90003	3V/600mAh Lithium Battery, CR2450 (25 pcs)
5-PBA90001	Personnel Identity Badge - Clip Attachment (25 pcs)
5-PBA90002	Open Front Card Holder, Horizontal/Vertical, (5 pcs)
5-PBA90003	3V/600mAh Lithium Battery, CR2450 (25 pcs)
5-PBA90004	Personnel Identity Badge - Label Covers (25 pcs)

For a complete list of compatible accessories, please contact your local VT Sales Representatives.

Office Locations

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About Visonic Technologies

Visonic Technologies (VT) is a global leader in Active RFID/RTLS Safety and Security solutions for healthcare.

VT delivers out-of-the-box as well as custom-tailored risk mitigation tools that enhance patient and personnel safety; reduces asset shrinkage and labor costs; lessens negligence litigation and facilitates industry guideline compliance.