

## **Product Description**

The Elpas LF BUS Exciter is a supervised 125KHz field emitter.

The device is used for adding real-time location visibility to Elpas RTLS Security, Safety & Visibility solutions or 3rd party healthcare management systems.

The LF BUS Exciter is easily attached to either solid or hollow walls and is designed to generate a continuous, user-adjustable, electromagnetic, spherical shaped field up to 1.5m/5ft in radius that can be used to cover a single interior doorway. Optionally, up to four LF BUS Exciters can be deployed in 'Primary–Secondary' star or daisy-chain topologies to cover large double-doors or architectural complex indoor entrance/exit areas.

Should an individual or asset bearing an Elpas Active RFID Tag enter the exciter's electromagnetic field; the tag is prompted to transmit a message indicating its presence at this location. The messages are received by nearby Elpas RF IP/BUS Readers or by Elpas Local Controllers and can either be locally processed or relayed over wired or wireless Ethernet/Wi-Fi networks to a RTLS host application such as Eiris Enterprise Software for triggering location alerts or for identifying the tag's precise location and status.

The LF BUS Exciter also contains an I/O port that enables the monitoring of one alarm sensor and control of either one digital open open collector output or one 26-bit Wiegand device.

**Technology** Low frequency electromagnetic spherical shaped field (125 KHz)

**\*Output Ranges Primary:** Four user selectable ranges: From 10cm/4.0 inches to 1.5m/5ft radius

**Secondary:** Two user selectable ranges: From 1.0m/3.3ft to 1.5m/5ft radius

**Transmission Rate** Continuous bursts of LF transmissions

(each about 12 ms in duration)

**Output and Format** 3-byte messages (preamble, exciter ID and CRC)

**Output Power** Less than 60 db $\mu$ v at 1.5m/5ft

**Output Bit Rate** 2,000 bit per second