

The Elpas ALC LF BUS Beacon is a 125KHz emitter that adds instantaneous location, choke-point (a door or any other opening that controls ingress and egress from a protected area), awareness to RTLS security, and safety applications. 5-ALC01121-0 is also fully supervised.

The ALC LF BUS Beacon generates a user-adjustable, elliptically shaped field up to 4m/13ft (perpendicular to the device) and 3.5m/11.5ft (parallel to the device) in radius that can be used to cover a single interior doorway. Optionally, up to three ALC LF BUS Beacons can be deployed in 'Primary-Secondary' (up to two secondary devices) topologies to cover large double-doors or architectural complex indoor entrance/exit areas. The DIP Switch setting determines which is primary and which is secondary.

The ALC LF BUS Beacon contains two general purpose analog inputs (IN1 and IN2) and two open collector outputs (OC1 and OC2). The device forces a choice between IN2 and OC2. The device also provides the choice of either two digital inputs or two 26-bit Wiegand device outputs. The DIP Switches setting determines these selections.

Following is the brief description of the RF part only, it is based on a single chip:

For the 5-ALC0112x-0 models the RF transmitter use the CC430F5137 chip, is internally ASK modulated at 19.2kbps rate and has an on-board assembled helical antenna.

For the 5-ALC1112x-0 models the RF transmitter use the CC430F5137 chip, is internally GFSK modulated at 175kbps rate and has an on-board assembled helical antenna.