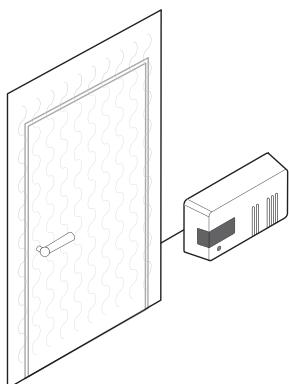


# IS75 Person Detection Beacon



The IS75 Person Detection Beacon is designed to allow the locating of any person wearing a S37L Wristband Transmitter with Locating function in the nearby vicinity. It generates a coded magnetic field which can be identified by the S37L Wristband Transmitter with Locating function. This system may be used to locate patients suffering from Dementia and eventually prevent them from leaving the area alone.

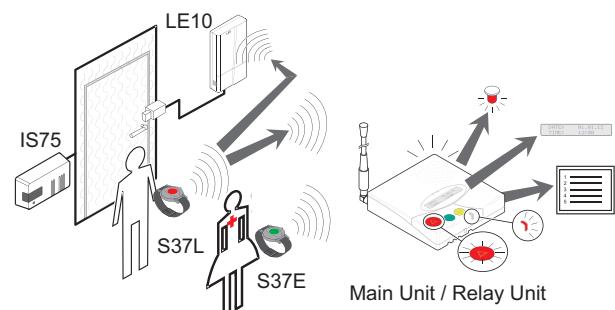
## System Overview



The system consists of the IS75 Beacon Controller and a loop antenna. By carrying out a loop with a simple wire, a coded magnetic field is generated. This loop antenna is connected to an IS75 Beacon Controller, and the system will send an identification code back to any S37L Wristband Transmitters with Locating function in the area.

- Passage marking and efficient locating of patients
- Reliable dementia monitoring
- Freedom of movement for the patient
- Guarantees fast intervention of staff
- Expandable system (one or more loop antennas)

## Functions



The IS75 Person Detection Beacon is built to interact with the following devices:

- S37L Wristband Transmitter with Locating function
- NurseCall Main or Relay Unit

The S37L Wristband Transmitter with Locating function will automatically detect the IS75 Person Detection Beacon's coded magnetic field. At alarm triggering, the S37L Wristband Transmitter sends the call for help to the NurseCall Main Unit along with its identification code as well as the position of the last passed beacon. The information may be used to locate the patient that has triggered a call for help, or send an alarm as soon as a "Dementia" patient is going through a monitored door. When passing each IS75 Person Detection Beacon, the S37L Wristband Transmitter refreshes its actual position. Therefore, the position recorded by the S37L Wristband Transmitter is always the one of the last passed beacon. The LED on the top of the housing indicates the status of the device.

## Certifications and Approvals

R&TTE 1999/5/EC  
 EMC 2004/108/EC  
 LVD 2006/95/EC  
 EN 55022 (2006, A1: 2007)  
 EN 60950-1 (2006)  
 EN 300220-2 V1.5.1  
 EN 301489-1 V1.8.1  
 EN 301489-3 V1.4.1  
 EN 50130-4 (1995, A1: 1998, A2: 2003)

## Parts Included

Quantity	Component
1	IS75 Beacon Controller
1	Power supply

## Installation/Configuration Notes

Do not install the beacon module in exposed sunlight or where there is poor air circulation. The IS75 Beacon Controller should be installed in a well-ventilated area, so as to avoid overheating. Use one loop antenna when using on doors (door width dimensions typically 1m to 1.5m). You can also install the loop antenna on the floor or on a wall. In that case, use a loop surface equivalent to the size of a door. If possible, avoid using on metallic doors. If installed on a metallic door, place the loop antenna at a minimum distance of 0.5 meter from the door. Take care not to have additional closed metallic circuits close to the loop. If so, break the circle. If the unwelcome metallic circle cannot be broken, it is recommended to use two loops around the door. After installation, the voltage measured at the power supply input of the IS75 Beacon Controller shall not be below 11.5 V DC. If the voltage is below 11.5 V DC, this indicates that there are unwelcome metallic circuits nearby. In this case, you need to use a second loop antenna around the door. The field can be tested by approaching a S37L Wristband Transmitter with Locating function. The LED indicator of the S37L Wristband Transmitter will light up whenever it detects the electromagnetic field. Ideally, the detection range should be 1.5 to 2.5 m in front of the loop antenna. When going through the IS75 Person Detection Beacon, the S37L Wristband Transmitter reads the position number of the beacon. This position number may be set internally by an 8- position dip switch inside the device. Two different IS75 Person Detection Beacons should be installed at a minimum distance of 4 m from each other.

## Technical Specifications

### IS75 Beacon Controller

Dimensions (H x W x D)	39 x 82 x 25 mm
Weight	40 g
Frequency	68 kHz
Power supply	Input: 230 VAC, 50 Hz Output: 12 VDC, 300 mA
Consumption	Max. 300 mA Automatic shut-off if overheating
LED indicator	Green : magnetic field is active Off : magnetic field is inactive
Permissible temperature	0 °C to 40 °C
Modulation bandwidth	9 – 135 kHz
Detection range	0.5 to 3 m, adjustable
Number of programmable positions	254

### Loop antenna

Wire cross section	0.25 mm <sup>2</sup> to 1.0 mm <sup>2</sup>
Maximum loop coil length	15 m
Maximum inductive loop coil area	30 m <sup>2</sup>

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