



- Model no. : PAS-K01-12
- Ultra Wideband based intelligent proximity alert system
- CAN bus interface with 12/24V external power
- Easy use without a setup
- Detecting functions are unaffected by wind, falling rain or snow, fog, humidity, air temperature, or light
- Tag operates in warehouses, factories, ports, and construction/mining sites as a safety device
- IP65 enclosure withstands harsh environments

## ● Technical Data

### General Specifications

| Communication Method | Interface    | Max. Detectable Distance | Standard Deviation of Detecting Distance | Weight |
|----------------------|--------------|--------------------------|------------------------------------------|--------|
| UWB                  | CAN Bus 2.0B | 20m                      | 2.9cm (500ms, 20m)                       |        |

### Ultra Wideband RF Parameter

| Method                              | Conducted Rx Sensitivity         | Conducted Tx Power Density | Data Rate |
|-------------------------------------|----------------------------------|----------------------------|-----------|
| UWB compliant IEEE802.15.4-2011 STD | -93dBm /500MHz (6.8Mbps, PER 1%) | Max -41.3dBm/MHz           | 6.8Mbps   |

### Electrical Characteristic

| Power (Adaptor)                                          | Operating Voltage | Power Consumption |
|----------------------------------------------------------|-------------------|-------------------|
| INPUT : 100 – 230VAC 50-60Hz 1.2A<br>OUTPUT : 12VDC 2.5A | DC 12V or 24V     | Below 4W          |

### Operating Specifications

| Operating Temperature | Storage Temperature | Ingress Protection Rating | Connector                        |
|-----------------------|---------------------|---------------------------|----------------------------------|
| -30~85°C              | -40~85°C            | IP65                      | I.P Connector PLUG 6P (M10xP0.5) |

## ● Overview

IPAS - Silent tag creates a mute environment within a certain zone.

Once the silence tag detects a pedestrian tag within the preconfigured range, any pedestrian tag will not be acted by surrounding devices and eventually become silent. Then, the pedestrian tag will re-alert once leaving the zone. The safety zone feature is widely used in small ones inside the warehouse and employees' lounges.

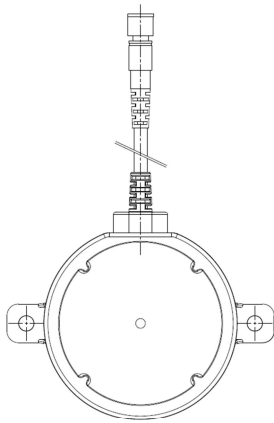


Figure 1. IPAS Silent Tag

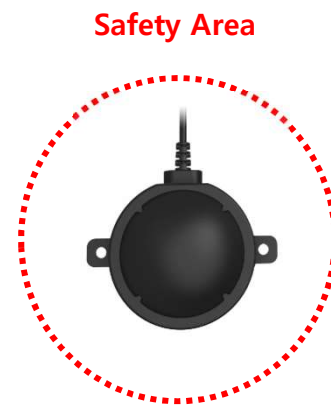


Figure 2. IPAS Silent Tag Detecting Distances

- Configuration : By IPAS Update Tool S/W

| Tag        | Area | Minimum Distance | Maximum Distance |
|------------|------|------------------|------------------|
| Silent Tag | A    | 2m               | 20m              |

## Configuration

The distance can be calibrated by using IPAS update toolkit software.

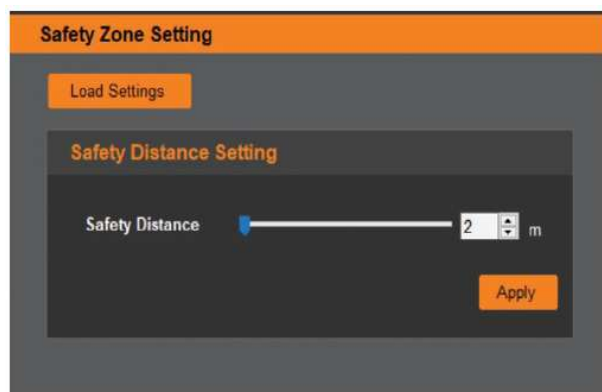


Figure 3. IPAS Silent Tag setting

## ● Specifications

### Dimension

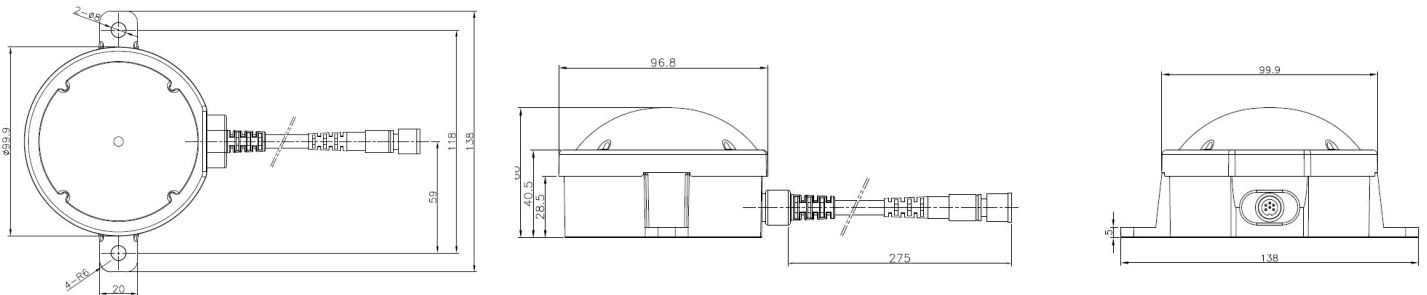


Figure 4. IPAS Silent Tag Detecting Dimension

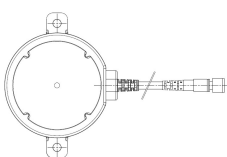
### Connector Specifications



| Pin No. | Function | Wire Description |        |
|---------|----------|------------------|--------|
|         |          | Size             | Color  |
| P01     | +12V     | AWG #26          | Red    |
| P02     | CAN_L    |                  | Yellow |
| P03     | CAN_H    |                  | Blue   |
| P04     | RS232_TX |                  | White  |
| P05     | RS232_RX |                  | Green  |
| P06     | GND      |                  | Black  |

## ● Products Assembly

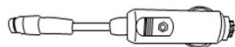
### Standard



Silent Tag



Extension Cable



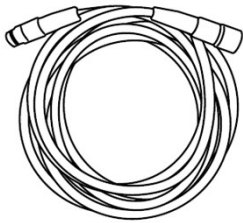
Cigar Jack



AC Adapter

## ● Accessory

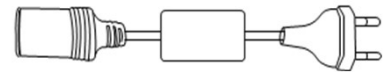
### Products



IPAS Extension Cable(6M)



IPAS Cable / Cigar Jack Adapter  
(250V 5A Fuse Included)



IPAS Universal AC Adapter

## ● Certifications



FCC: ZE8-PAS-K01-12-B  
R-R-KWO-PAS-K01-12-B

### Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

"This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures.

A minimum separation distance of 20cm must be maintained between the antenna and the person for this appliance to satisfy the RF exposure requirements.

Operation on board an aircraft or a satellite is prohibited. Devices operating under this section may not be employed for the operation of toys. Except for operation onboard a ship or a terrestrial transportation vehicle, the use of a fixed outdoor infrastructure is prohibited.

**CAUTION : Make No Modification to this Product**

Any modifications to this product not expressly approved by Kyungwoo Systech could void the user's authority to operate the product. Contact Kyungwoo Systech for more information.

**Kyungwoo Systech, Inc. Limited Warranty**

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항공기, 선박, 위성, 모형비행기에의 적용을 금지함.

These devices may not be employed for the operation of toys. Operation onboard an aircraft, a ship or a satellite is prohibited.

적합성평가를 받은 자의 상호 : (주)경우시스테크

기자재 명칭 : Intelligent Proximity Alert System

기자재의 제조시기 : 별도표기

기자재의 제조자 및 제조국가 : (주)경우시스테크/대한민국