Sigfox Lidar People Counter WSSFC-LPC

SKU: WSSFC-LPC

Doc No: WSSFC-LPC-DS-EN-10

Introduction

WSSFC-LPC is a Sigfox sensor with built-in advanced Lidar sensor to detect and ranging people. It can count the people walk thru with accuracy higher than 90%. The sensor is not affected by temperature, humidity, RF noise and less affected by ambient light... With Ultra-low power design and smart firmware allow the complete Wireless and Sensor package run on AA battery 1.5V in many years. Moreover, it can be powered by external power supply at the same time. It can support all regions of Sigfox network in over the World, RC1, RC2, RC3, RC4, RC5, RC6, RC7.

- High accuracy counting by Lidar;
- Distinguish people in and out;
- Sigfox Ready;
- Battery operated for many years;
- Plug & Play.

Typical Applications

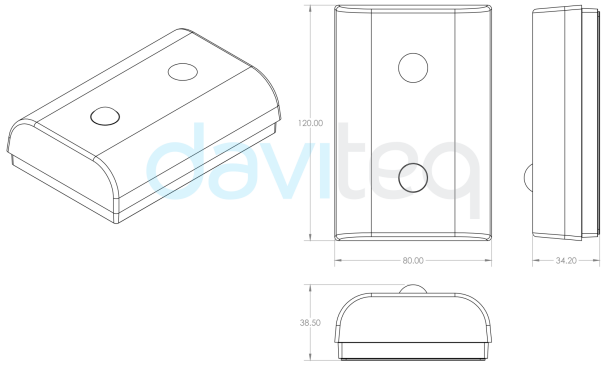
- People counter for public toilet
- People counter for Store, shop...

SIGFOX LIDAR PEOPLE COUNTER
WSSFC-LPC



WSSFC-LPC-H1.PNG

DIMENSION DRAWING OF WIRELESS SENSOR
(Unit: mm)



WSSFC-LPC-H2.PNG

People Counter for Store, Shop...



WSSFC-LPC-H3.PNG

Specification

SENSOR SPECIFICATION	
Sensor technology	Lidar
Detection range	max 4m
Detection cone	27 degree
Working temperature	-40 .. + 60 oC
Working humidity	0 .. 100% RH, non-condensing
SIGFOX SPECIFICATION	
Sigfox zones	select RC2-RC3-RC4-RC5 or RC1-RC6-RC7
Functions	Sending data in interval or when alarms occur
Antenna	Internal Antenna 2 dbi
Configuration	via offline USB cable (PC software is supplied at free)
Power Supply	Battery AA Type 1.5VDC and 7..48VDC (AC adapter not included
RF Module complies to	CE, FCC, ARIB
Working temperature	-40oC..+60oC (with Lithium Ultimate AA battery)
Dimensions	H120xW80xD45
Net-weight	< 150 grams
Housing	Self-extinguisher ABS, Dust and vapor protection
Mounting	Ceiling mount

Payload Data

The following is the format of payload data will be sent to Sigfox server. Length is 10 bytes.

Sensor type (1 byte)	Status (1 byte)	1 st - Parameter (4 bytes)	2nd - Parameter (4 bytes)

Meaning of Data in the Payload

Data	Size (byte)	Bit	Format	Meaning
Sensor type	1	all	Uint8	Sensor type = 0x... means Simple Soil Moisture Sensor Sensor type = 0xFF means no sensor
Status: battery level	1	Bit 7 and 6	Uint8	Battery capacity in 04 levels • 11: battery level 4 (99%) • 10: battery level 3 (60%) • 01: battery level 2 (30%) • 00: battery level 1 (10%)
Status: error		Bit 5 and 4		Node status • 01: error • 00: no error
Status: alarm 1		Bit 3 and 2		Alarm status of 1st - Parameter (Y1 value)11 : Hi alarm • 01 : Lo alarm • 00 : No alarm
Status: alarm 2		Bit 1 and 0		Alarm status of 2nd - Parameter (Y2 value)11 : Hi alarm • 01 : Lo alarm • 00 : No alarm
1st - Parameter	4	all	Unint32	Y1 value: People-in counter value
2nd - parameter	4	all	Unint32	Y2 value: People-out counter value

Ordering Code

Item code	Descriptions
WSSFC-LPC-9-01	SIGFOX LIDAR PEOPLE COUNTER, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP5X, RC2-RC3-RC4-RC5 ZONES
WSSFC-LPC-8-01	SIGFOX LIDAR PEOPLE COUNTER, INTERNAL ANTENNA, TYPE AA BATTERY 1.5VDC, IP5X, RC1-RC6-RC7 ZONES

⚠ Link for full datasheet:

⚠ Link for manual:

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