



iPeople

People Counting Sensor



TST iPeople

People Counting Sensor

Product Description

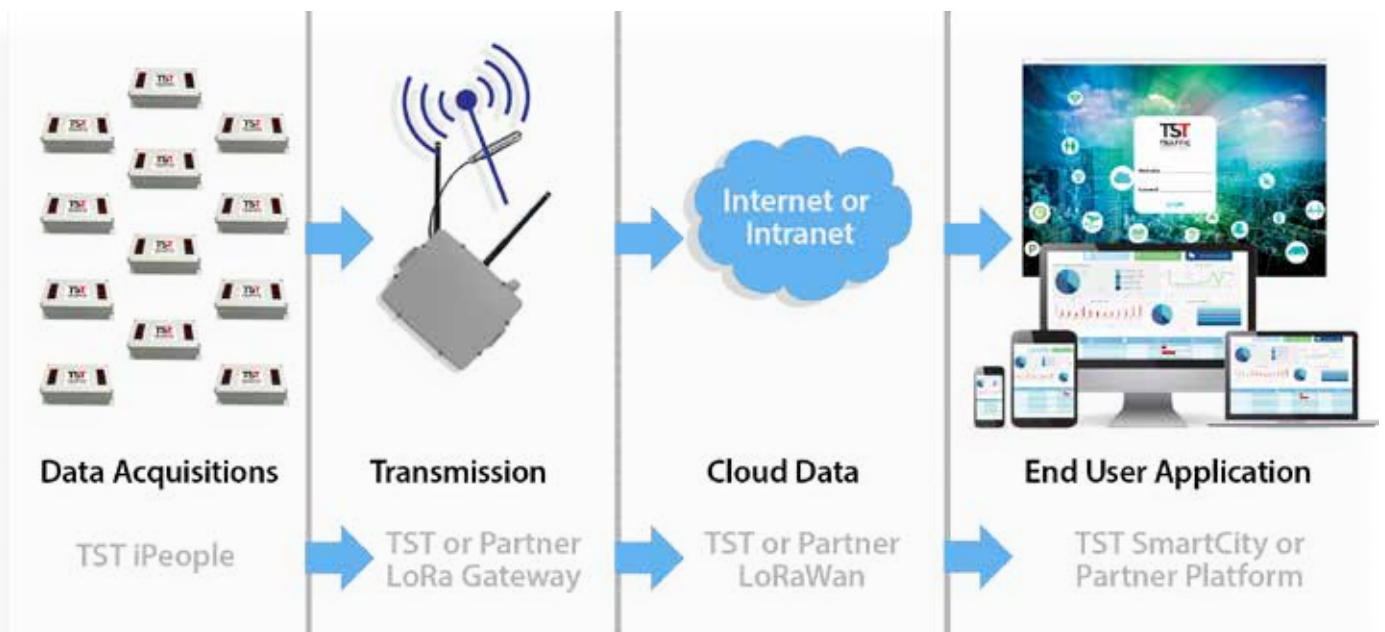
The **TST iPeople** sensor is designed for counting exact numbers. People in an environment such as shopping, sporting venues or working environments. It can also be used for counting units on an assemble line. The scope of the **TST iPeople** is vast and has many possible uses, such as responding to emergency situations where numbers of people in a location can be counted out and in within an unsafe environment.

Features


- High sensitivity and accuracy bi-directional people counting sensor for retail stores, quick restaurants, SMB buildings
- Count exact numbers of people or object (such as bottle on assembly line) to enter or exit
- Using mirrored reflection, with range up to 4 meters.
- Enables people foot traffic monitoring at wide range of locations and types of businesses
- Enables analysis of valuable statistics such as customer traffic profile such as peak/low, hour of the day, day of the week, day/week of the month, day/week of the year
- Real time bidirectional counter report (the report cycle is configurable)
- OTA (Over The Air) firmware upgrade, including to upgrade loader and application images
- Analog and digital interface for external sensor connectivity and pulse counting (MPI)
- Operational life with 2 x AA Li-SOCI2 Battery
- Optional DC 12V power source
- Integrated internal antenna, or optional external SMA/IPEX antenna
- Up to 5km reach in NLoS (Non-Line-of-Sight) and up to 18km LoS (Line-of-Sight) environments
- IP67 enclosure rating

Application Architecture and Sample Applications

- People foot traffic counting in shopping mall, retail stores, quick restaurant
- Manufacturing assembly line product counting
- SMB personnel access monitoring
- Usage and occupancy of conference room, sport facility, lab, rest room



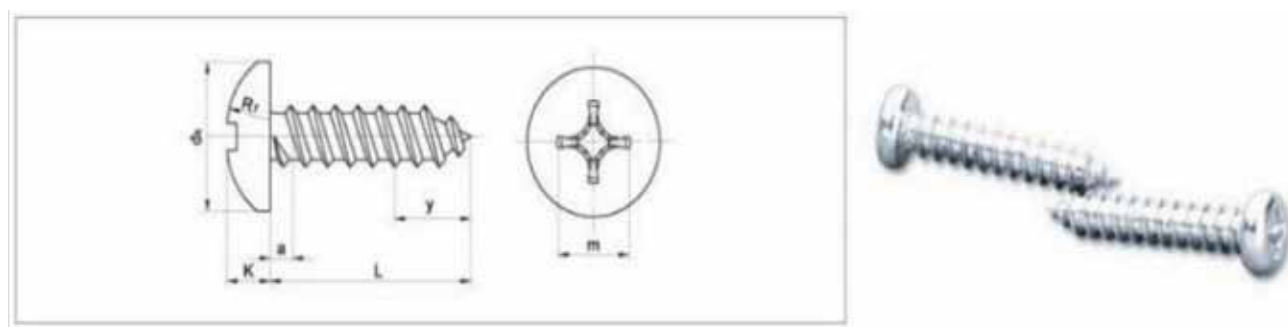
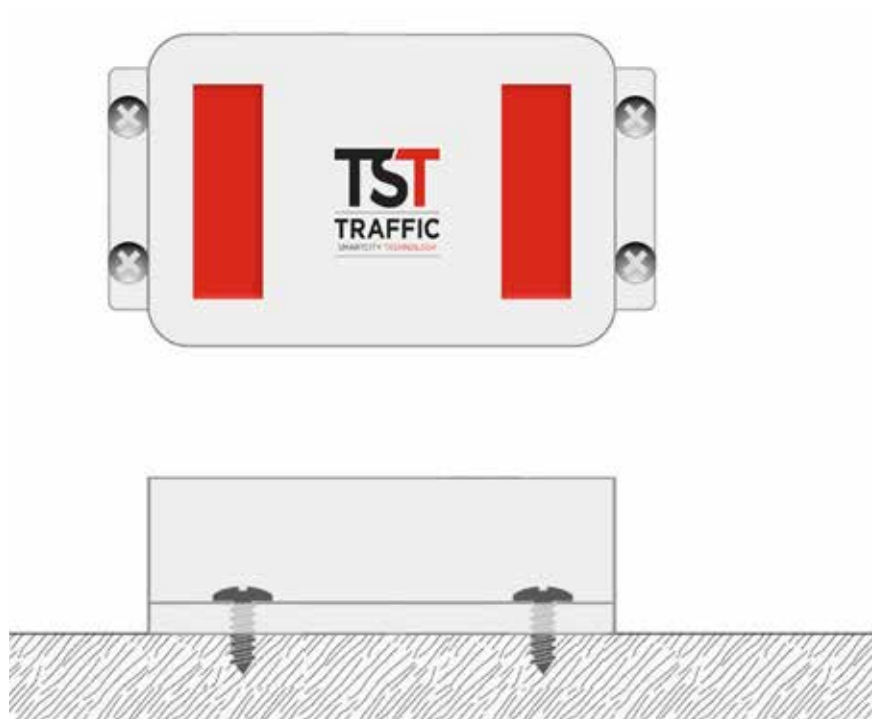
Technical Specifications

PARAMETER	VALUE
SENSOR	
Valid detecting Range	0-4m (from one side of the doorway to the opposite side) Within 0.5 meter, reflective mirror is not needed
Response Time	<1 second
Data Report	Normally 1 minute (user-configurable)
WIRELESS	
ISM Band	AS 923MHz
Maximum Link Budget	168dB
Distance	Up to 5km NLOS; up to 18km LOS
Antenna	Integrated internal antenna or external 1/2 wavelength whip antenna (SMA)
MECHANICAL	
Dimensions	Composite styles: (1) Single Enclosure: 158mm x 90mm x 65mm (2) Separate enclosure for flexible placement: 60mm x 100mm x 30mm (WxS8800) 50mm x 50mm x 18mm (IR emitter) 60mm x 50mm x 30mm (Reflection mirror)
Protection Level	IP65 or IP67 (WxS8800) Indoor or outdoor
Operating Temperature	-40°C – +85°C (WxS8800)
Cable Length	1.5 meters or can be custom length
Total Weight	200g
ELECTRICAL	
Supply Voltage	12V DC
Power Type	DC 12V
COMPLIANCE	
LoRa Alliance 	LoRaWAN 1.0.2



Installation Guide

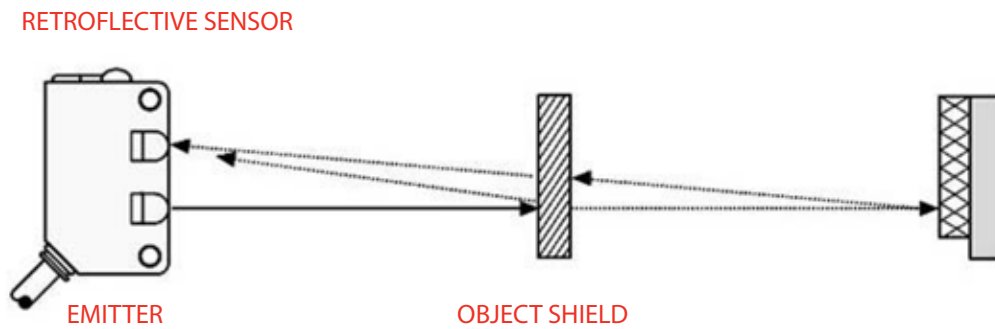
Below diagram shows the general installation guide for TST 880-043, it can be installed on any flat and solid surface, the lid is contacted with the surface and fixed via 4 self-tapping screws:



Below is the recommendation of the self-tapping screw and its sizes:

		ST2.2	ST2.9	ST3.5	ST4.2	ST4.8	ST5.5	ST6.3
dk	min	3.7	5.3	6.64	7.64	9.14	10.57	11.57
K	min	1.4	2.15	2.35	2.8	3.4	3.7	4.3
m		1.9	3	3.9	4.4	4.9	6.4	6.9
L		4.5 - 100mm						

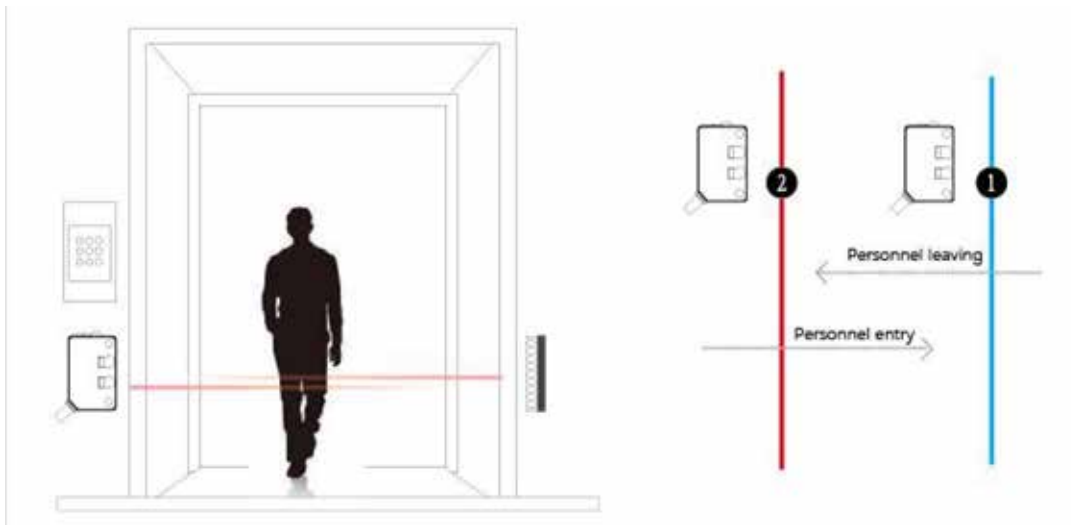
Components



Installation

The bi-directional counter sensor is connected to WxS8800 via wire cable, by default, 1.5 meter cable is provided (please contact sales if you require a different length of cable).

TST iPeople - A Wide Range of Applications



The **TST iPeople** sensor We perform local sequence analytic to A-B or B-A to determine whether a person's direction is entering or exiting. Personnel statistics and demographics that can be widely used to monitor foot traffic in many commercial businesses or hotels. In public places such as airports, shopping malls, exhibition halls, retail stores, fast food restaurants. The **TST iPeople** sensor monitors customer foot traffic statistics in real time.

The **TST iPeople** sensor reports statistics in both directions of people's movement. The population density of the area and where people are located can be accurately analyzed.

With accuracy of over 95%, the **iPeople** sensor enables accurate data analysis to extract business values such as; customer foot traffic pattern, peak business hours, staffing scheduling, precise occupancy and usage statistics. Compared to other monitoring approach devices, such as Motion PIR, the **TST iPeople** count sensor provides actual statistics of people entering and exiting and the number of people present.





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