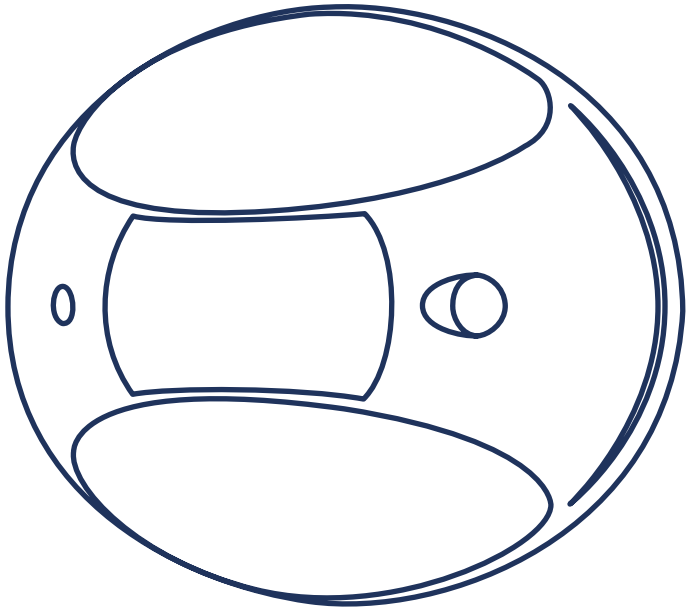
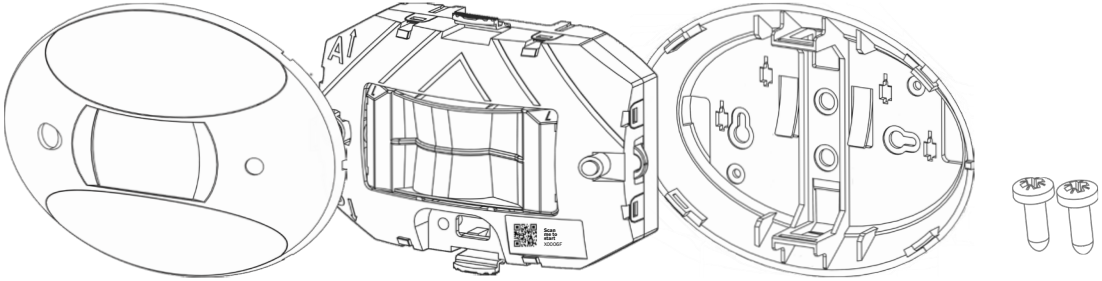
LZR®

SIGMA

People counting solution

Quickguide



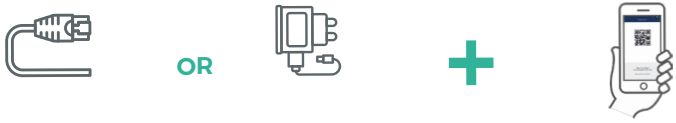


FRONT FACE

COUNTING HEAD

SURFACE MOUNTING BASE

SCREWS



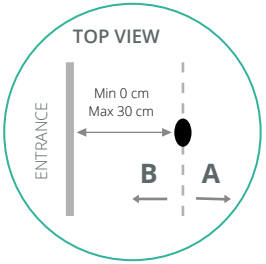
PoE

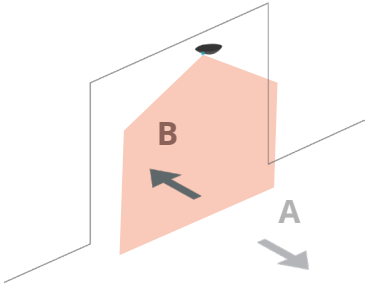
POWER SUPPLY

LZR SIGMA APP

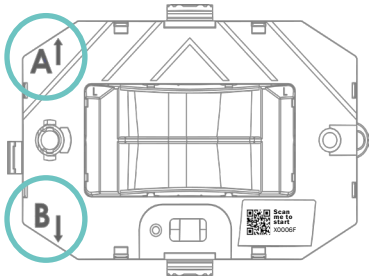
1 Installation area

Sigma fits anywhere (doors, walls, ceilings).
Just make sure you place it overhead





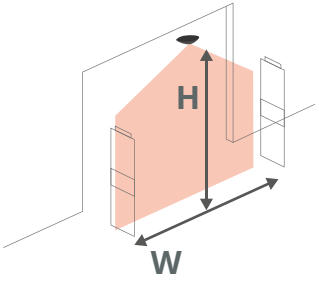
Choose a direction for your flow of people
(Tip : A towards the inside)



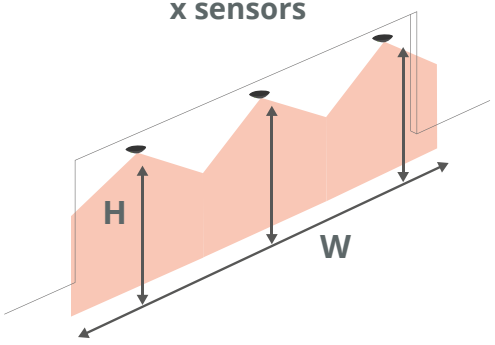
Measure the width of the counting area to determine the number of sensors needed

H	W max
2 m	1,6 m
2,5 m	2,5 m
3,5 m	3,5 m
4 m	4,5 m
5,5 m	7,5 m

1 sensor



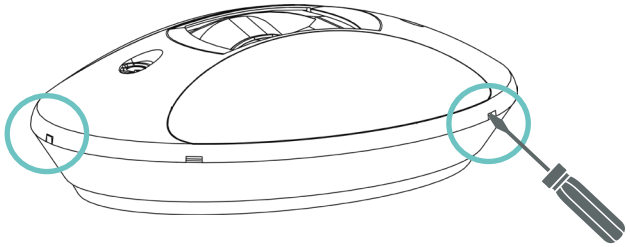
x sensors



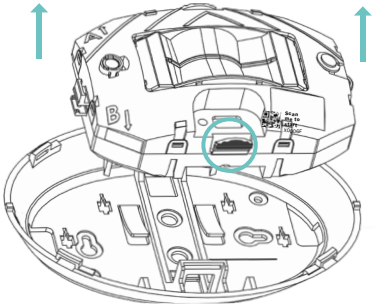
If you use more than one sensor, check the detection fields using our online sizer tool: **www.meetsigma.io/sizer/**

2 Assembly

Open Sigma

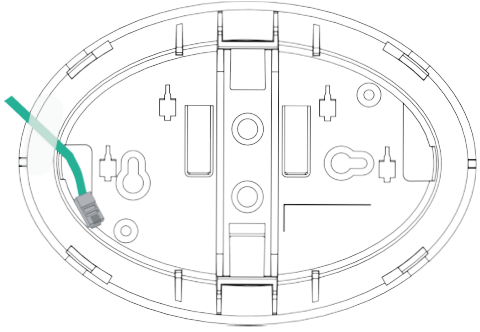


Remove the counting head by unclipping it

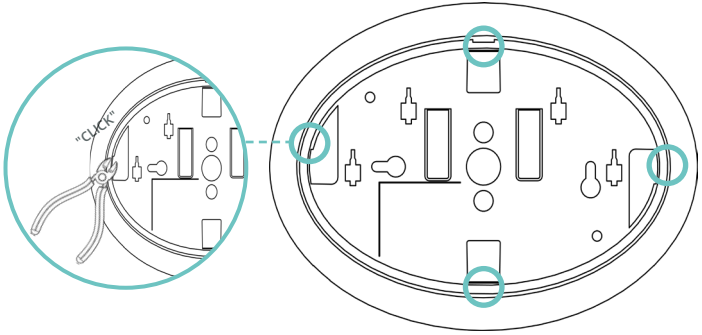


Caution – Do not open the counting head as it may result in hazardous radiation exposure.

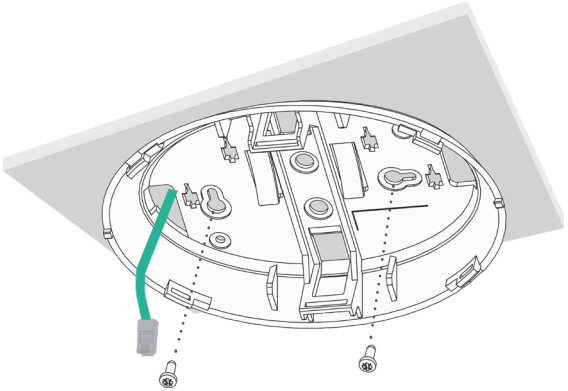
Pass the cable through the base



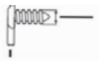
If necessary, a piece of the base can be removed with a cutting tool



Fix the base on the ceiling



PZ2



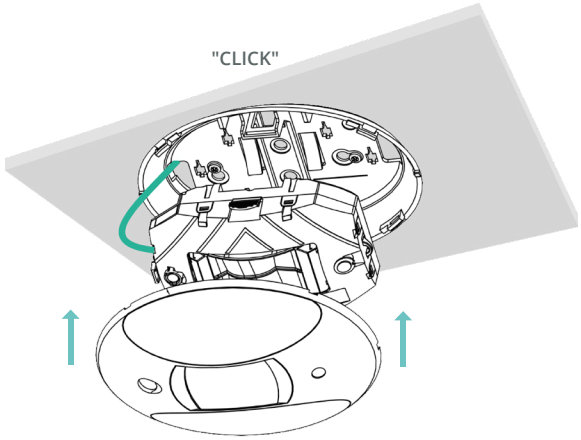
3-4 mm

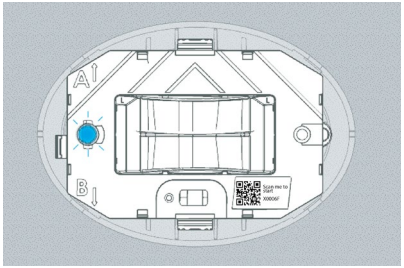
8-10 mm

3 mm

Adapt screw lenght and type accordingly

Connect the cable to the counting head. Clip the counting head to the base and close Sigma



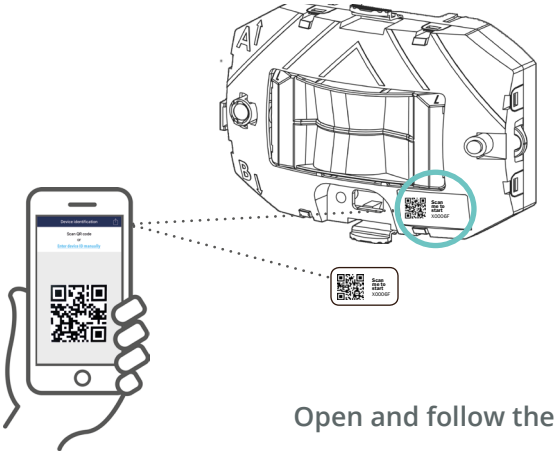


Searching for network (0 - 5 min.)

Connected to the network

CLASS 1
LASER PRODUCT

Scan the QR Code (on the device or on the box) or download the **LZR Sigma app** on:

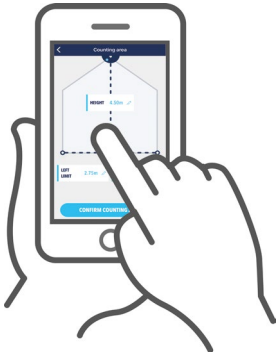


OR

GET IT ON Google Play

Download on the App Store

Open and follow the app to complete the installation.



LED signal	Cause	Action
	No internet connection	The ethernet configuration is wrong or no cellular network is available Check the network connection
	Device is not powered *Note that the LED can also be off when the device is in normal operation*	Check power supply
	Communicating with the app or with sensorio. Connected to the network	The device is communicating
	Searching for network	The device is connecting to the network
	Learning	Define the max. limit on your right or left
	Error	If this occurs, please contact BEA.
	Updating	Connection to the device is impossible Wait for update completion
	Port 22 and/or 443 not opened	Check network properties

Legend: Solid LED Flashing LED

Other information

ONLINE DEVICE MANAGER

Go to www.sensorio.com to manage your portfolio of sensors.

WEB SERVER

Static IP adress : 192.168.1.2
User name: device ID (see tags on the device)
Password: ***password***

Conformity

BEA hereby declares that the radio equipment type LZR®-Sigma is in compliance with Directive 2014/53/EU (RED) and Directive 2011/65/EU (RoHS). The full text of the EU declaration of conformity is available on our website.

Technical Specifications

Technology	LASER scanner, time-of-flight measurement
Emission characteristics - IR LASER	Wavelength 905 nm ; average output power 0.05 mW; Class 1 (EN 60825)
Device dimensions	200 mm [L] x 142 mm [W] x 61 mm [H] (elliptical) (if mounted with recessed accessory : visible height 37 mm, invisible height 65 mm)
Temperature range	- 25° C to 55°C if powered (storage temperature -35°C to +70°C)
Humidity	0 - 95% non-condensing
Power	24 VDC ± 10% External DC power or PoE (IEEE802.3af) Power consumption Max. 12 W/Peak - Average 6 W
Data transfer	3G/2G cellular, Ethernet (cable cat. 5/6)
Supported frequencies / Power	GSM 850 - 824 to 849 MHz (Tx) - 869 to 894 MHz (Rx) - 2 W (Max. Power) E-GSM 900 - 880 to 915 MHz (Tx) - 925 to 960 MHz (Rx) - 2 W (Max. Power) DCS 1800 - 1710 to 1785 MHz (Tx) - 1805 to 1880 MHz (Rx) - 1 W (Max. Power) PCS 1900 - 1850 to 1910 MHz (Tx) - 1930 to 1990 MHz (Rx) - 1 W (Max. Power)
Installation height	2 m to 5.5 m
Counting width coverage	Ratio [0.8 - 1.35] depending on mounting height (cf. sizer tool: **www.meetsigma.io/sizer/**)
Ports	MQTTS 8883 / HTTPS 443 / SFTP 22
Video validation (optional feature)	Resolution 160px x 120px, frame rate 15 fps (for counting proof purposes only)
Counting data refresh rate / granularity	1 min. (granularity 1 min.) to 24h (granularity 5 min.)
Protection degree	IP53

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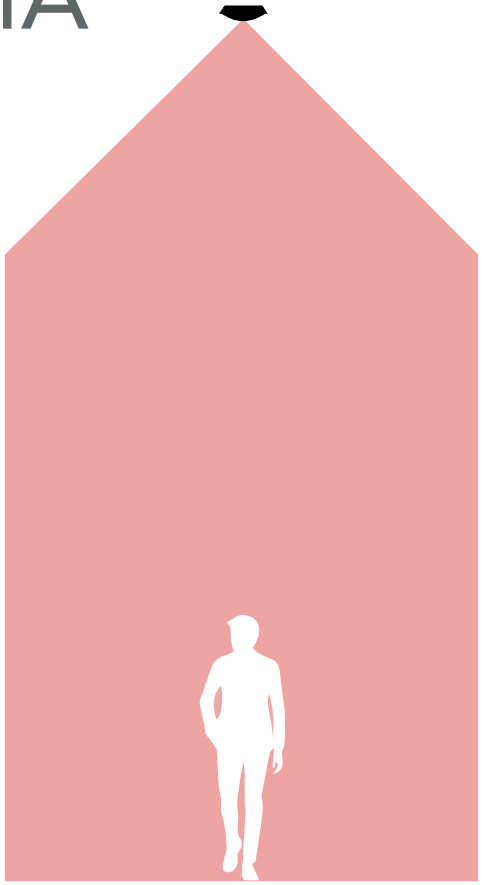

High precision

Independant of
the environment

Autonomous
connectivity

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THIS PRODUCT SHOULD BE DISPOSED OF SEPARATELY FROM UNSORTED MUNICIPAL WASTE