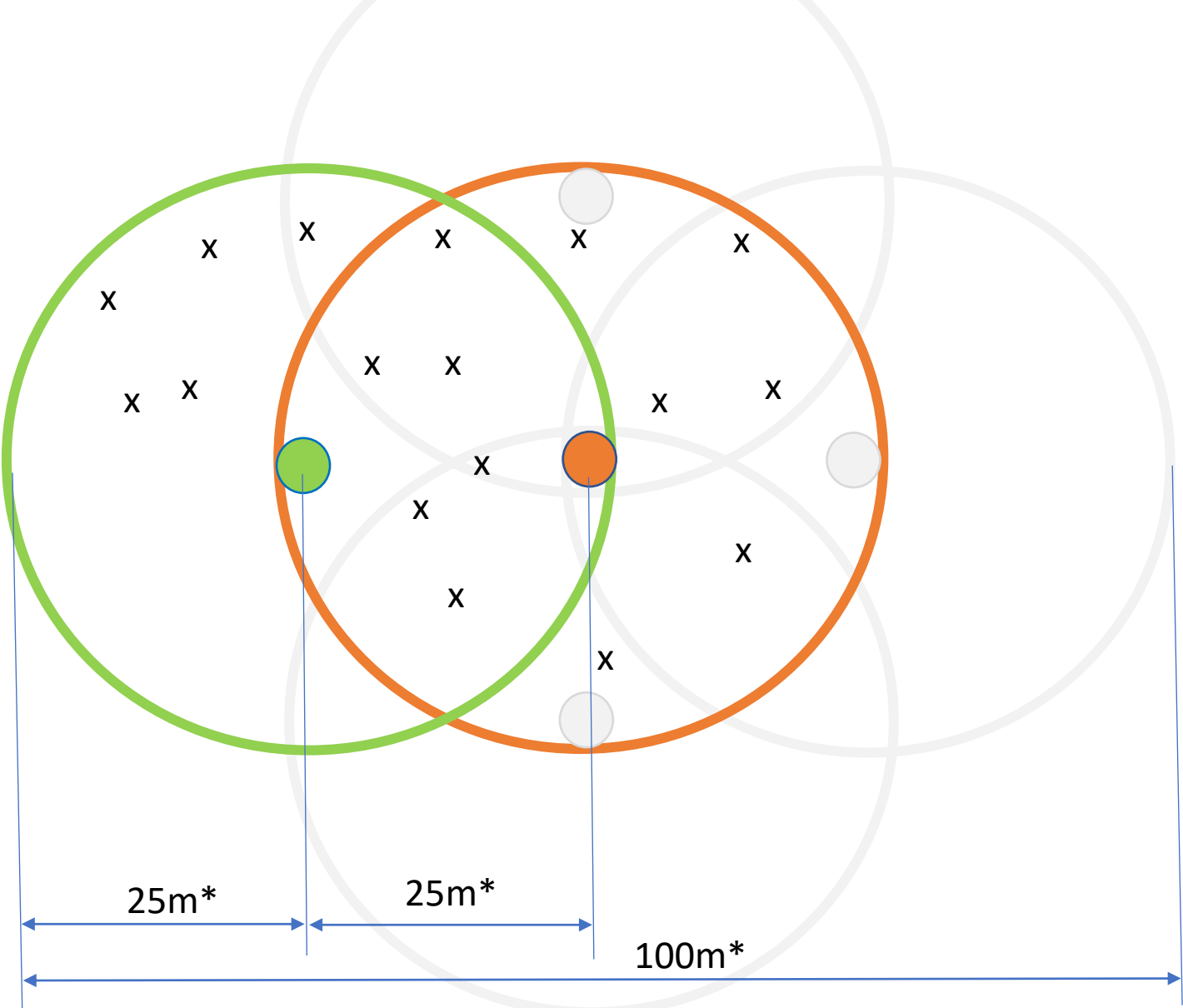# iQunet architecture

SubGHz

Typical setup with

Cable Powered

Wireless Vibriation Sensors

(self-triggering)

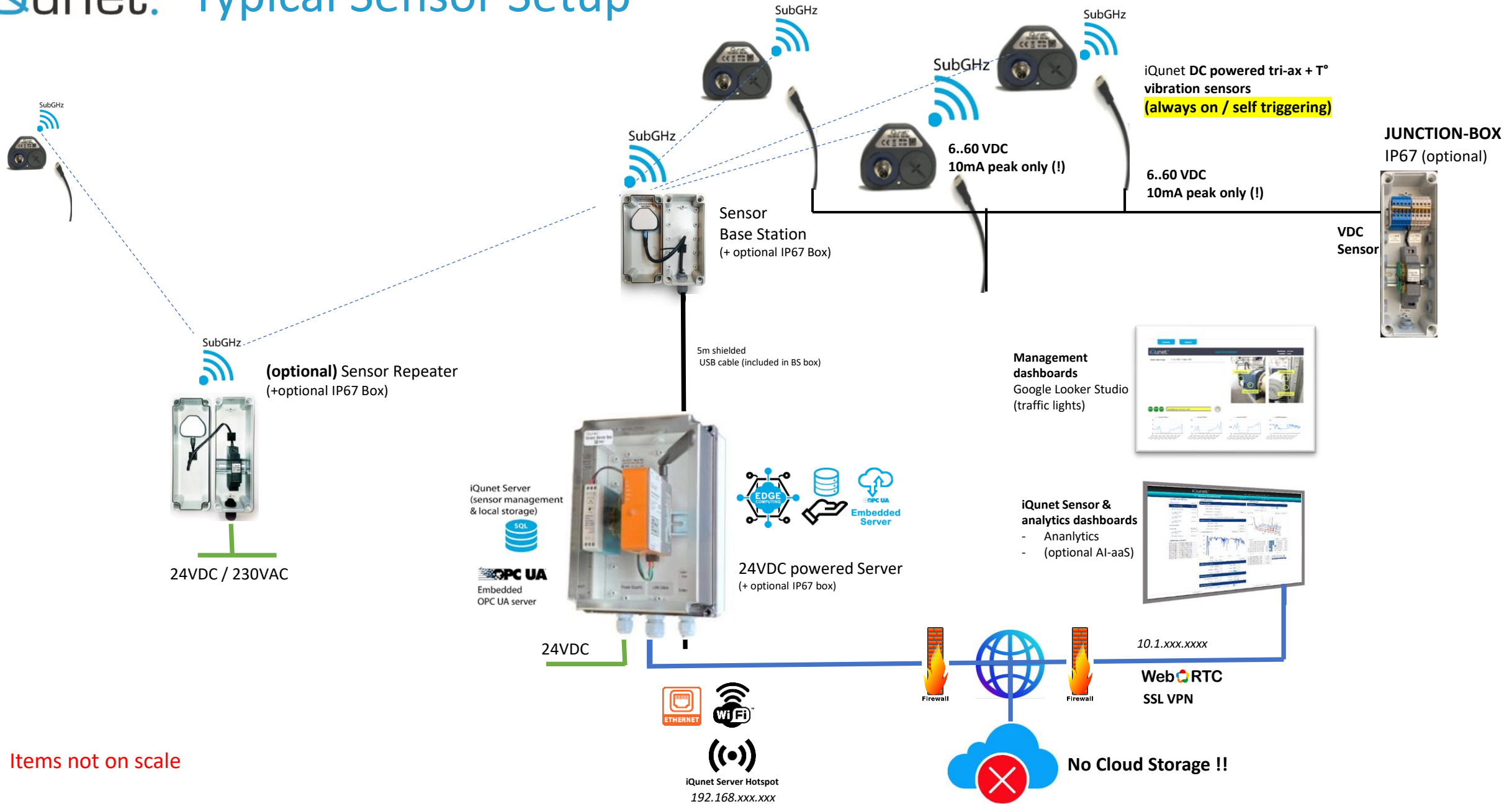# iQunet.® Typical Sensor Range and Layout*

Sensor Base Station (+ iQunet Server)

Sensor Repeater

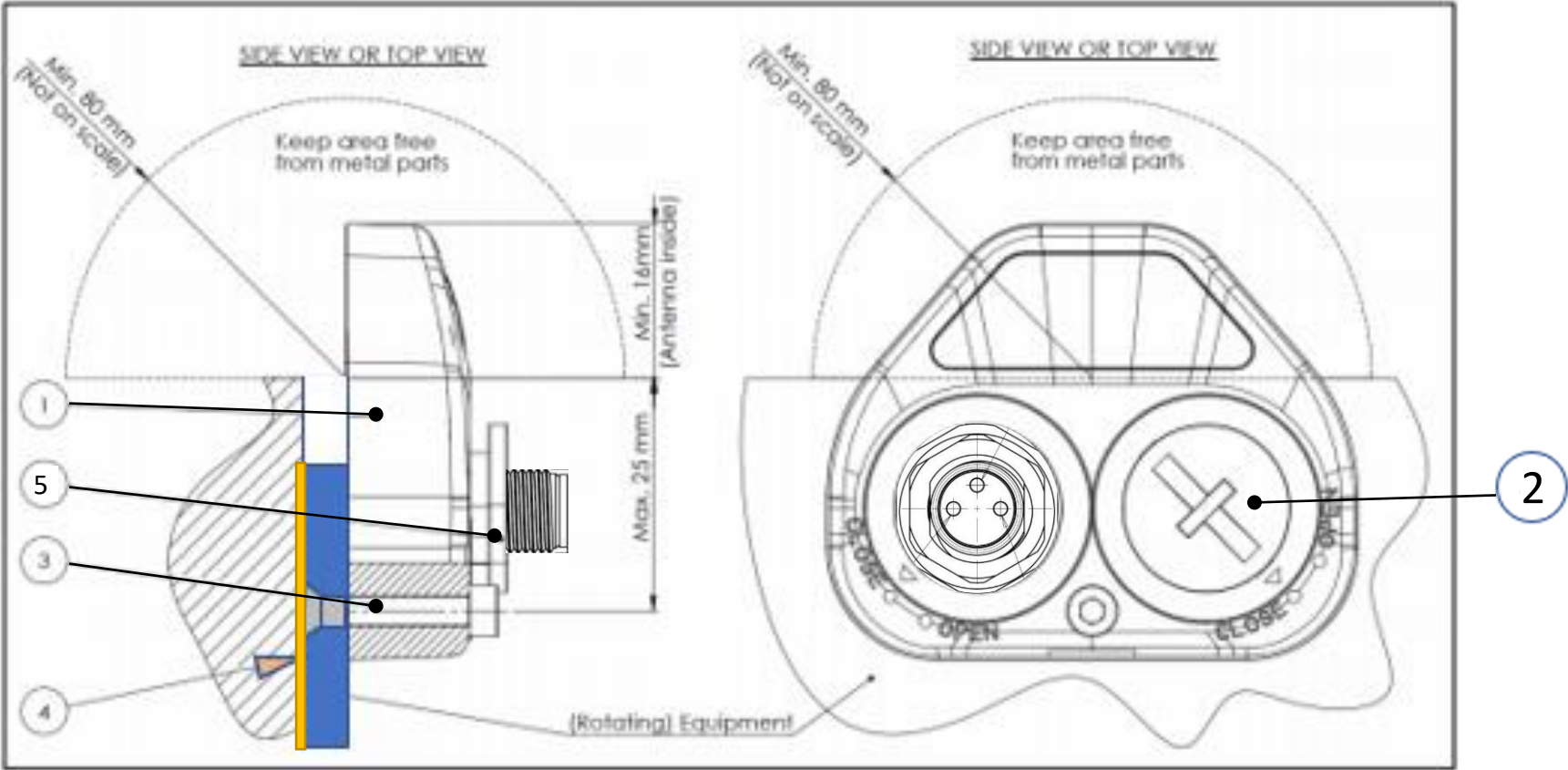x Sensor

Possible extensions (Repeaters)

25m* 25m* 100m*

(*) Radio ranges are indicative. Plant topology like walls, ceiling, metal covers and machines could influence the radio range positive or negative. Mounting of the sensors and sensor network components shall be made according to iQunet instructions.

iQunet. Typical Sensor Setup

SubGHz
SubGHz
SubGHz
SubGHz
SubGHz
SubGHz
SubGHz

iQunet **DC powered tri-ax + T°
vibration sensors
(always on / self triggering)**

JUNCTION-BOX
IP67 (optional)

**6..60 VDC
10mA peak only (!)**

**6..60 VDC
10mA peak only (!)**

VDC
Sensor

Sensor
Base Station
(+ optional IP67 Box)

(optional) Sensor Repeater
(+optional IP67 Box)

5m shielded
USB cable (included in BS box)

**Management
dashboards**
Google Looker Studio
(traffic lights)

iQunet Server
(sensor management
& local storage)

SQL

EDGE
COMPUTING

OPC UA
Embedded
Server

**iQunet Sensor &
analytics dashboards**
-   Ananlytics
-   (optional AI-aaS)

24VDC / 230VAC

OPC UA
Embedded
OPC UA server

24VDC powered Server
(+ optional IP67 box)

24VDC

ETHERNET   WiFi

Firewall   Firewall

10.1.xxx.xxxx

Web**⊙**RTC
SSL VPN

Items not on scale

iQunet Server Hotspot
192.168.xxx.xxx

❌ **No Cloud Storage !!**

iQunet® Typical Sensor Mounting

Magnet

④ Epoxy – 5 mm gap filling – high hardness

② Battery holder IP68