TWIG Beacon Ex SRD
## The Indoor Location Solution for Lone Workers

The TWIG Beacon Ex SRD system is engineered to locate distressed or injured persons inside areas where GPS is not reliable and other methods do not provide needed accuracy. TWIG personal alarm devices are located within a microcell network of RF transmitters, laid out to meet position accuracy requirements.

Instantly operational

TWIG Beacon Ex short range devices are immediately functional and offer years of operating time with their integrated large-capacity battery. The system is easy to set up with over-the-air configuration. The IP67 waterproof housing allows installation in demanding environments.

Complementary Location System

TWIG personal safety alarm devices transmit TWIG Beacon location information to the alarm receiving center (ARC) along with the last known GPS position, creating a complementary location system for indoor premises capable of global roaming outdoors.
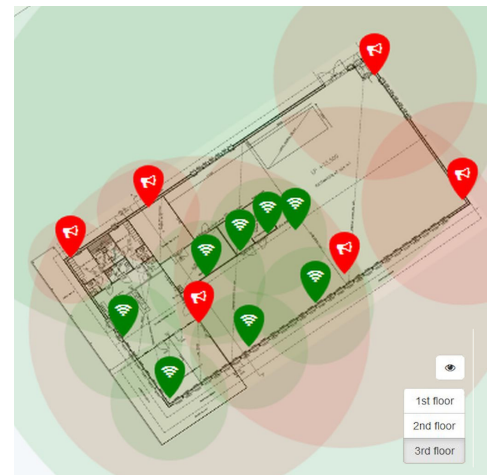
Lone worker safety

Duty of care requires employers to give lone workers means to alert help. Depending on risk assessment, a dedicated alarm device may be required. An automatic ManDown alarm is sent when device user falls or is not moving. When entering a risky situation, enhanced monitoring can be requested with Amber alert. TWIG personal alarm device can trigger alert in ARC also in absence of mobile network connection.

Indoor positioning

In many buildings GNSS satellite signals are blocked and GNSS-computed location is not available at all. Indoor location is achievable with TWIG lone worker alarm device option SRD3*, enabling accurate indoor positioning using signals from TWIG SRD beacons, Bluetooth Low Energy beacons, or Wi-Fi base stations installed in the building. TWIG lone alarm device equipped with the SRD option is compatible with TWIG SRD beacons and other TWIG short range devices.

Alarms monitoring and Tracking

TWIG Integrator Kit resources enable integrating TWIG devices with alarm receiving centre (ARC).

Optionally the TWIG Point platform offers a turnkey solution for alarms monitoring and tracking. Alarms and reports can also be received on a smartphone as SMS with web map link.

Modular system

With the TWIG modular SRD system, the TWIG lone worker alarm including SRD or SRD3 option can be connected to several TWIG SRD beacons.

Short-range RF beacons
• Location determined using Beacon signals
• Complement GPS location indoors

Small, easy and affordable
• Discreet design
• Instantly operational
• Wireless configuration
• Scalable coverage up to 2000 m2 per beacon**
• Add beacons for increased resolution
• No location server system required

Compatibility and communication
• TWIG Beacon Ex works with TWIG lone worker alarm devices including SRD or SRD3 option.
• Beacon data is transmitted from TWIG device to ARC in MPTP (Mobile Phone Telematics Protocol) messages, over SMS or GPRS.

Provisioning and security
• Wireless configuration
• TWIG Beacon Configuration Adapter
• TWIG Beacon Configurator PC application
• Configuration security

Brief technical specification
• Dimensions: 125 mm x 75 mm x 60 mm
• Weight: 305 g with battery
• Operating temperature -20°C..+40°C
• Power supply alternatives:
• Lithium primary battery 19 Ah
• Operating time: 4 years*** (typical, with lithium primary battery)
• Operating frequency: 869,675 MHz (EU), 918,675 MHz (AU)
• Transmitting cycle: 4-99 s (adjustable)
• Transmitting power level: -30 dBm - +5 dBm
• Frequency deviation: +/- 5 kHz

Mechanics
• Water and dust proof (IP67)

ARC integration alternatives
• Display beacon name
• Beacons reference list at ARC

Sales package content
• TWIG Beacon Ex
• Integrated lithium primary battery 19 Ah
• Printed quick guide

ATEX -approved
• II 2 G Ex ib IIC T4 Gb
• Zone 1 Category II Gas intrisically safe temperature class 4

Options and accessories
• Wireless Configuration Adapter + USB cable
• ATEX compliant beacon (II 2 G Ex ib IIC T4 Gb, Zone 1 Category II Gas intrisically safe temperature class 4), operating temperature: -20°C..+40°C
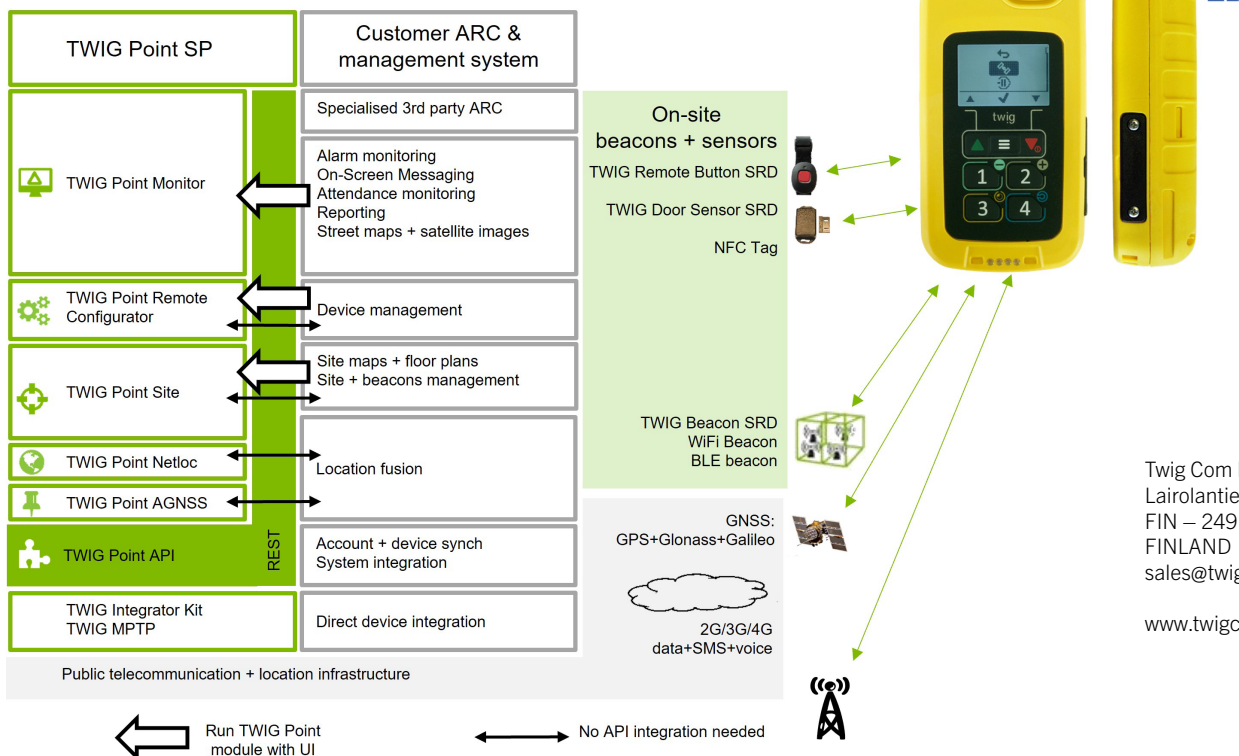

TWIG Point SP	Customer ARC & management system
TWIG Point Monitor	Specialised 3rd party ARC
	Alarm monitoring / On-Screen Messaging / Attendance monitoring / Reporting / Street maps + satellite images
TWIG Point Remote Configurator	Device management
TWIG Point Site	Site maps + floor plans / Site + beacons management
TWIG Point Netloc	Location fusion
TWIG Point AGNSS	
TWIG Point API	Account + device synch / System integration
TWIG Integrator Kit / TWIG MPTP	Direct device integration
Public telecommunication + location infrastructure	

On-site beacons + sensors
TWIG Remote Button SRD
TWIG Door Sensor SRD
NFC Tag

TWIG Beacon SRD
WiFi Beacon
BLE beacon

GNSS: GPS+Glonass+Galileo

2G/3G/4G data+SMS+voice

⇦ Run TWIG Point module with UI
⬌ No API integration needed

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