

Indoor Lone Worker Alarms Solution

The TWIG Beacon Ex system is designed to locate distressed or injured persons in explosive hazardous areas where GPS is not reliable and other methods do not provide needed accuracy.

TWIG personal alarms devices are located within a microcell network of RF transmitters, laid out to meet position accuracy requirements.

Throw beacons in place with large-capacity integrated battery, providing years of operating time. Over-the-air configuration facility makes setting up the system easy.

IP67 water-proof housing allows installation in demanding environments.

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



Lone worker protection

Duty of care requires employers to give lone workers means to alert help. Depending on risk assessment, a dedicated alarm device may be required.

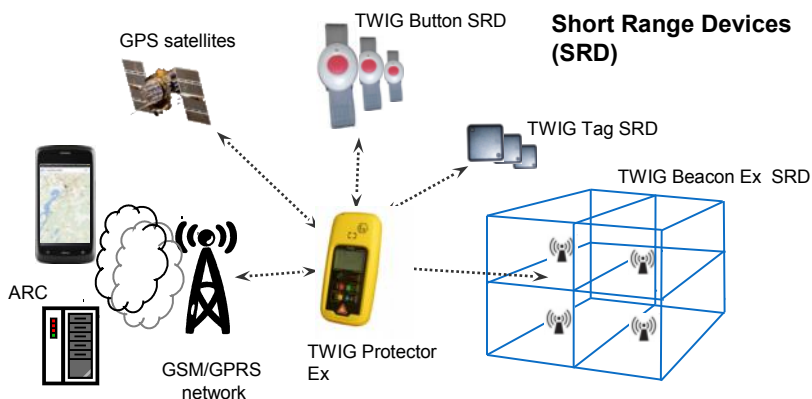
- Automatic ManDown function can trigger alert if user is incapacitated.
- When entering a risky situation, request enhanced monitoring with AmberAlert.

Attendance monitoring

Register attendance by swiping TWIG Tags.

Asset security

Protect vehicles, machinery, caravans and other mobile assets through motion watch and inclusion zones based on TWIG Beacon or GPS.



Alarms monitoring and tracking

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

Optionally the TWIG WebFinder SP software provides a turn-key solution for testing or deployment.

Or receive alarms and reports on your smartphone as SMS with [web link](#), opening up Google Maps view.



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Twig Com Ltd.

Meriniitynkatu 11
FIN – 24100 SALO
FINLAND

Tel: +358 40 510 5058

Fax: +358 42 510 5058

sales@twigcom.com

www.twigcom.com

TWIG Beacon Ex

DATA SHEET

Short-range RF beacons

- Location determined using Beacon signals
- Complement GPS location indoors

Small, easy and affordable

- Discreet design
- Throw in place
- 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 works with TWIG TCP90EU -devices equipped with the TWIG short range devices (SRD)

Tranceiver -option:

- TWIG Protector
- TWIG Protector EasyL / EasyS
- TWIG Asset Locator

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

Mechanics

- Waterproof (IP67)

ARC integration alternatives

- Display beacon name
- Beacons reference list at ARC

Sales package consists of:

- TWIG Beacon
- Integrated lithium primary battery 19 Ah
- Printed quick installation & configuration guide

ATEX -approved

- II 2 G Ex ib IIC T4 Gb
- Zone 1 Category II Gas intrinsically safe temperature class 4



Options and accessories

- Wireless Configuration Adapter + USB cable

