TWIG SRD Beacons

Indoors and underground. Location still available.

TWIG SRD beacons provide location information where satellite-based positioning is unavailable or unreliable.

Installed throughout a building or site, TWIG SRD beacons create location cells that can be identified by compatible TWIG personal alarms. Beacon information is transmitted to the alarm-receiving centre as part of the alarm message.

Install once. Run for years.

The integrated 19Ah lithium battery provides up to four years of typical operation, reducing maintenance requirements.

The IP67–rated enclosure protects against water and dust, making TWIG SRD beacons suitable for industrial and demanding indoor environments.

Install today. Configure remotely.

TWIG SRD beacons are operational immediately after installation.

Configuration settings can be updated over the air without visiting individual beacons. Secure configuration tools simplify deployment and maintenance.

Location known. Alarm sent.

Installed throughout a building or site, TWIG SRD beacons create location cells that can be identified by compatible TWIG personal alarms. Beacon information is transmitted to the alarm-receiving centre as part of the alarm message.

Smaller cells. Better accuracy.

Standard-range beacons provide broad coverage for efficient site-wide deployment. Reduced-range beacons create smaller location cells for improved positioning accuracy. In multi-storey environments, they help separate floors and reduce signal overlap between levels.

Hazardous area. Same principle.

ATEX-certified beacon models are available for potentially explosive atmospheres. Suitable for oil and gas, chemical processing, energy production and other hazardous industrial environments.

One building. Twenty buildings.

TWIG SRD scales from small installations to large multi-building deployments. Compatible TWIG personal alarms can identify multiple beacons, allowing coverage to expand as operational requirements change.

TWIG SRD Beacons

Technical Specification (TST90EU and TST90EX)

twig

Short-range location system

- Location determined using RF beacon signals
- Complement GPS location indoors

Compact and simple

- Discreet design
- Instantly operational
- Wireless configuration
- Scalable coverage up to 20 000 m² per beacon*
- No location server system required

Compatibility

- Compatible with TWIG personal alarms equipped with SRD or SRD3 option

Communication

- Beacon data is transmitted from the TWIG personal alarm device to the ARC using MPTP (Mobile Phone Telematics Protocol) messages over SMS or GPRS.

Setup and security

- Over-the-air configuration
- TWIG Beacon Configuration Adapter
- TWIG Beacon Configurator PC application
- Secure configuration

Key specifications

- Operating temperature:-20°C..+60°C
- Power supply: 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

Typical ranges*

TX level	Standard range (m)	Reduced range (m)
5	80	20
0	40	10
-10	20	5
-20	10	3
-30	5	1

Mechanics

- Water and dust proof (IP67)
- Dimensions: 80 mm x 82 mm x 56 mm
- Weight: 305 g with battery

ARC integration

- Beacon name displayed at ARC
- Beacons reference list at ARC

Accessories

- Wireless Configuration Adapter + USB cable

ATEX version (TST90EX)

- II 2 G Ex ib IIC T4 Gb
- Zone 1 Category II Gas
- Intrisically safe
- Temperature class: T4
- Operating temperature: -20°C..+60°C

Sales package content

- TWIG Beacon
- Integrated 19 Ah lithium primary battery

Model options

- Standard or reduced range
- AU or EU frequency

Twig Com Ltd.

Lairolantie 14
FIN – 24910 SALO
FINLAND
sales@twigcom.com

www.twigcom.com