

# twig™

## TWIG Protector Ex

# Care and control

### Intrinsically Safe Personal Safety Alarm (ATEX)

The TWIG Protector Ex is the ultimate GPS/GSM personal safety device, designed to protect lone workers in explosive hazardous areas.

Alert triggers include alarm button, automatic ManDown function and AmberAlert. Predefined emergency protocol transmits latest known GPS position and TWIG Beacon indoor position\* and opens two-way voice connection to alarms receiving centre (ARC).

High-performance GPS receiver with turn-key AGPS feed is complemented with TWIG Beacon indoor location\*.

The small and light device is rugged and IP67 water proof, providing ease of mind for the user and unparalleled life cycle economies for the administrator.

Excellent operating times even in continuous GPS monitoring are achieved through advanced technology and large-capacity battery.



#### 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.

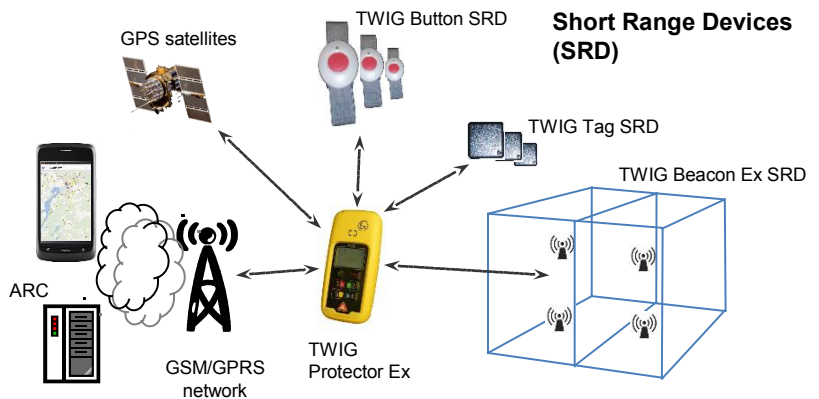
- Automatic ManDown function can trigger alert if user is incapacitated.
- When entering a risky situation, request enhanced monitoring with AmberAlert. It can trigger alert in ARC also in absence of GSM connection.\*\*\*\*

#### Small yet powerful

- 99 grams
- IP67 water proof
- Excellent battery life
- AGPS\*\*\*\*

#### Efficient deployment

Fully remotely configurable, TWIG is fast to deploy and flexible to operate. Also USB programmable, either manually or using saved file.



II 2 G Ex ib IIC T4 Gb

#### 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 smart phone as SMS with [web link](#), opening up Google Maps view.

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## TWIG Protector Ex

### GSM/GPRS & GPS DATA SHEET

#### Compatibility and communication

TWIG Protector Ex can communicate with all systems using MPTP (Mobile Phone Telematics Protocol) both SMS and GPRS. Tracking and alert messages include information on GPS / TWIG Beacon location, speed, heading and battery charge.

#### Provisioning and security

- Remote or local configuration
- Authorisation of remote and local access

#### Mechanics

- Water proof (IP67)
- Shock resistant

#### Ease of use

- Dedicated ergonomic SOS button
- LCD display with guiding symbols
- Preprogrammable Quick dial / status keys
- Answer / End call
- Power On/Off

#### Key telematics functionality

- Alert through SOS button
- Automatic ManDown alert (tilt, non-motion)
- AmberAlert (timer alert, local + server based)
- Two-way GSM voice with speaker
- Device and user status messages
- GPS / TWIG Beacon\* tracking
- Geofence

#### Brief technical specification

- Dimensions: 18mm x 45mm x 94mm
- Weight: 99g including battery
- Quad-band GSM (850/900/1800/1900)
- Built-in GSM and GPS antennas
- Operating temperature -20°C..+40°C

#### Operating time

- Rechargeable 1300 mAh Li-ion battery
- Typical operating times, GPS/GPRS reporting\*\*
  - 7 days (1 GPS report / hr)
  - 4 days (1 GPS report / 10 min)
  - 24 hours (1 GPS report / min)
  - 8 hours (1 GPS report / 5 sec)
  - Up to 25 days (GSM standby only)
- Recharging time\*\*\* < 3,5 hrs for 100%

#### GPS\*

- High performance 48-channel receiver
- Time to first fix: Hot start 1 s; cold start < 35 s
- AGPS feed: Extended ephemeris over GPRS
  - Configurable opt-out and roaming block
- Extended ephemeris on-board generation
- Motion based GPS control

#### Sales package consists of:

- TWIG Protector Ex GPS/GSM unit with integral battery
- Charger of choice (mains / car)
- Quick user guide

#### ATEX -approved

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



#### Options

- TWIG short-range devices (SRD) tranceiver

#### Accessories

- Leather carrying case (II 2 G Ex ib IIC T4 Gb)
- TWIG Beacon SRD indoor/outdoor location unit (II 2 G Ex ib IIC T4 Gb)
- Desk recharging dock\*\*\*\*\*
- Car charger + car holder\*\*\*\*\*
- USB programming cable\*\*\*\*\*
- TWIG Tag SRD active RF tag\*\*\*\*\*



Quick dial  
Status  
Amber Alert  
ManDown control

Emergency