

## Data Sheet - XSole PTI Module ATEX zone 2



XSole PTI electronic module integrated to smart insoles makes it possible to extend protection to lone workers.

### Good to know

The module combines GPS, GSM and Bluetooth information and sends them based on worker's activity. The information is safely received and analyzed by the TRAXxs data center. The XS Manager application makes it possible to take care of the alerts and manage the insoles (notifications, positive safety, remote configuration).

### Alarm types

**Mandown alarm:** a sensor detects an unconventional position of the shoe. A pre-alarm is triggered in the form of discontinuous vibrations of the insole. Without an acknowledgment by the worker, the insole automatically sends an alarm.

**Voluntary SOS:** in case of violence, aggression or to ask for help, the worker triggers an invisible SOS by hitting 3 times his right foot against his left foot.

**Evacuation alarm:** in case of risk (attack, fire...), the safety manager can send an alarm to all equipped workers. He will then be able to follow the evacuation in real time.

## Indicator light

A flashing light means that the module is working correctly. If the light does not flash, the insole is not charged.

## Product description

Casing: TPU/Epoxy resin/Aramid

Communication technologies: GSM/GPRS/LTE-M/NB-IoT/BLE

Radio frequencies: 850/900/1800/1900/1575/2400 MHz

Geolocation: GNSS multi-constellations 72 channels, sensitivity -166 dBm

Connectivity: multi-operator SIM

Working temperature: up to 50°C

Software updates: FOTA (Firmware Update Over the Air)

Security: TLS

Product reference	Width	Height	Length	Weight
XSE_001	5 cm	0,7 cm	12 cm	80 g

## Electromagnetic compatibility (EMC)

The electronic module meets the requirements of European directives about short range transmitters.

- Radio Equipment Directive (RED) 2014/53/UE
- Low Voltage Directive (LVD) 2014/35/UE
- Electromagnetic Compatibility (EMC) Directive 2014/30/U

## ATEX features

<b>II 3 GD</b>	<p>II: (equipment group) surface industries (no underground mines)</p> <p>3: (category) equipment is intended for use in zone 2 (gas) or zone 22 (dust)</p> <p>GD: gas or dust environment</p>
<b>Ex mc IIC T6 Gc X</b>	<p>Ex mc: protection by encapsulation for zone 2</p> <p>IIC: gas group (most easily ignited e.g. hydrogen or acetylene)</p> <p>T6: max surface temperature 85°C</p> <p>Gc: gas protection level zone 2</p> <p>X: specific conditions of use of the equipment</p>
<b>Ex mc IIIC T85°C Dc X</b>	<p>Ex mc: protection by encapsulation for zone 22</p> <p>IIIC: conductive dust</p> <p>T85°C: max surface temperature 85°C</p> <p>Dc: dust protection level zone 22</p> <p>X: specific conditions of use of the equipment</p>

## Environment

Special waste handling may be required. For more information, contact your local authorities. Charger Product can be disassembled for material recovery.



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