

## **CERTIFICATE RED-1160**

Our ref.

HEL-CERT180100050-01

## **EU TYPE EXAMINATION CERTIFICATE**

RADIO EQUIPMENT DIRECTIVE 2014/53/EU

**Product** 

Personal alarm device

Type

TUP92EU

Trade mark

**TWIG** 

**Marketing Names** 

TWIG Protector, TWIG Protector Pro, TWIG Protector Easy

Certificate Holder

Twig Com Ltd.

Lairolantie 14, FI-24910, Salo, Finland

Manufacturer

Same as applicant

Compliance with the requirements on the basis of type examination

Product fulfils the requirements of the standard(s) listed in Appendix 1 and the essential requirements set out in Article 3.1a (health & safety), Article 3.1b (EMC) and Article 3.2 (radio spectrum use) of Radio Equipment

directive 2014/53/EU

Validity

This certificate is valid until 2023-01-31 unless the standard in question has been amended or superseded.

Date of issue

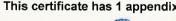
2018-01-31

**SGS Fimko Ltd** 

Signature

Jari Merikari **Technical Manager** 

SGS Fimko Ltd is a Notified Body (0598) according to the RE Directive 2014/53/EU. Authentication of this Certificate can be confirmed at: sgs.fimko@sgs.com









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SGS Fimko Ltd.

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Appendix to Certificate:

**RED-1160** 

Manufacturing sites

Twig Com Ltd.

Lairolantie 14, FI-24910, Salo, Finland

Applied standards

Article 3.1a (health & safety)

EN 50566:2013

EN 50360:2001 + A1:2012

EN 62209-2:2010

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Article 3.1b (EMC)

EN 301 489-1 V2.2.1, EN 301 489-3 V2.1.1, EN 301 489-17 V3.1.1

EN 301 489-19 V2.1.0, EN 301 489-52 V1.1.0

Article 3.2 (radio spectrum use)

EN 300 220-1 V3.1.1, EN 300 220-3-2 V1.1.1

EN 300 328 V2.1.1

EN 301 511 V12.5.1

EN 301 908-1 V11.1.1, EN 301 908-2 V11.1.1

EN 303 413 V1.1.1

**Test reports** 

Testing laboratory	Report number	Date
SGS Fimko Ltd.	286189-2-1	2 January 2018
SGS Fimko Ltd.	286189-2-2	27 December 2017
SGS Fimko Ltd.	286189-3-1	5 December 2017
SGS Fimko Ltd.	286189-3-2	29 December 2017
SGS Fimko Ltd.	286189-3-3	29 December 2017
SGS Fimko Ltd.	286189-4	28 June 2017
Verkotan Oy	CE SAR Report	
	Protector_TUP92EU_2	23 January 2018
	3012018.docx	

## **Technical information**

Operating voltage:

Battery: 3.7 VDC; Charger 5.0 VDC

Frequency band: SRD: 869.675 MHz

Bluetooth LE: 2402 – 2480 MHz WLAN b/g/n: 2412 – 2480 MHz GSM/GPRS: 900 and 1800 MHz

WCDMA: Band I. VIII

GNSS receiver: Band L1; 1559 - 1607 MHz

Transmit power:

Bluetooth LE: 9.8 dBm EIRP WLAN b/g/n: 20 dBm EIRP max. GSM/GPRS: 33 dBm max. WCDMA: 24 dBm max.

Antenna type and gain: PIFA; 2.0 dBi (max)



Appendix to Certificate:

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Additional information

This type examination certificate is based on the inspection of the technical file ref. no. TUP92EU files

This certificate is valid only for the types mentioned in this certificate.

The manufacturer must inform SGS Fimko if any technical or electrical changes made to the product covered by this certificate, as unauthorised modifications would invalidate this certificate.