

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Validity	This certificate is valid until 2023-01-31 unless the standard in question has been amended or superseded.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



This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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 3012018.docx	23 January 2018

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: RED-1160

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.