

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. EU-Type Examination Certificate Number: **EESF 21 ATEX 025X**
4. Product: **SRD Radio beacon for indoor positioning**
Certified types: **TWIG Beacon TST90Ex**
5. Manufacturer: **Twig Com Ltd**
6. Address: **Lairolantie 14, FI-24910 HALIKKO AS., Finland**
Additional manufacturing locations:
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Expert Services Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report No. EUFI29-21002667-T1
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 EN 60079-11:2012
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2G Ex ib IIC T4 Gb

Espoo, 06.07.2021
Eurofins Expert Services Oy

Jenni Hirvelä
Senior Expert

Kari Koskela
Senior Expert

This document is digitally signed.

13. **Schedule**

 14. **EU-Type Examination Certificate EESF 21 ATEX 025X**

 15. **Description of Product**

TWIG Beacon Ex IIC TST90Ex is a non-rechargeable, single primary cell operated wireless 'Short-range RF Beacon' for indoor use. The Beacon shall be used only with TWIG Protector Ex IIC, type TCP90EU personal protection device inside the hazardous areas. Maximum radio frequency power is 3.2 mW. There are no external connectors in the device. Maximum nominal operating voltage of the Tadiran SL-2780 Li/SOCl₂ battery voltage is $U_{nom} = 3.6 V$. The battery shall not be replaced by the user. The original battery type shall be used only.

 16. **Report Number**

EUF129-21002667-T1

 17. **Specific Conditions of Use**

1. The device shall be used according to the manufacturer's instructions.
2. To avoid ignition caused by electrostatic discharge, the enclosure shall be cleaned with damp or wet cloth only.

 18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

 19. **Drawings and Documents**

Title:	Drawing No.:	Rev	Date:
Safety description Twig Com devices TWIG Beacon IIC Ex	TurvallisuustarkasteluProtector_TTP02 EX-3.doc	3	2013-09-11
Beacon battery schematics	TTP02_beacon_battery.sch-1	A0	2013-09-27
Beacon battery parts	Beacon_battery_parts_EX	-	2013-09-27
*TTP02 Beacon Ex PCB098	PCB098X2_pcb.pdf	X2	2019-04-18
TTP02 Beacon Ex PCB099	PCB099X0	X0	2013-05-24
TTP-02 Beacon Blocks	TTP_beacon_block.sch-1	A0	2013-05-24
PCB099X0 schematics	TTP02-beacon-07.sch-1	A1	2012-05-18
PCB099X0 Ex parts list	PCB099X0_parts_EX-2	2	2013-10-01
*PCB098X2 Ex parts list	PCB098X2_parts_EX-1	2	2021-06-21
*PCB098X2 Schematics	PCB098X2_sch.pdf	A1	2021-07-02
Twig Beacon IIC ATEX, battery installation	Twig_Beacon_IIC_ATEX_paristo ja vastus_ATEX_käyttöön_v1	-	2013-10-24
Enclosure mechanical drawing	SPCP081306T	A	2008-12-04
SPCP081306T Enclosure product specifications	-	-	2013-05-28
*Beacon Ex Tyypikilpi (Marking label)	TWIG_Beacon_Ex_IIC_typelabel-02.doc	2	2021-06-21

*) New or revised document

 20. **Certificate History**

Issue	Date	Report No.	Change
VTT 13 ATEX 026X	5.11.2013	VTT-S-06768-13	Prime certificate
EESF 21 ATEX 025X	06.07.2021	EUF129-21002667-T1	NB name changed from VTT to Eurofins. New certificate format. Compliance with EN IEC 60079-0:2018 assessed. Minor changes in electronics.