



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEX EESF 19.0020X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2021-01-19)
Date of Issue:	2021-11-15		Issue 1 (2020-11-30)
Applicant:	Twig Com Oy Lairolantie 14, FI-24910 Salo Finland		Issue 0 (2020-06-26)
Equipment:	GPS/GSM Personal Protection and Surveillance Devices TWIG One Ex TLP50EU, TWIG One Ex TLP51EU and TWIG One Ex TLP53EU		
Optional accessory:	TWIG USB cable FME92EU; TWIG battery charger CME92EU; TWIG Leather pouch cases YN3310EX, YN3500EX and YN5000EX; TWIG Belt clip MC3750/AFB; TWIG Ex car charger, type CCE92EU		
Type of Protection:	Intrinsically safe		
Marking:	Ex ib IIC T4 Gb Ex ib IIIC T130°C Db Ta: -20 °C...+60 °C		

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:

2021-11-15

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo
Finland

 **eurofins** | Expert Services



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Manufacturer: **Twig Com Oy**
Lairolantie 14, FI-24910 Salo
Finland

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FI/EESF/ExTR20.0020/03](#)

Quality Assessment Report:

[FI/EESF/QAR19.0012/01](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

TWIG One Ex TLP50EU, TWIG One Ex TLP51EU and TWIG One Ex TLP53EU devices are Lithium-Ion-polymer battery operated Cellular Lone Worker Safety devices with GNSS and hybrid radio network positioning. They use MPTP telematics protocol for tracking the device and reporting alarms etc. Telematics message can be automatic man down signal, location update or manual by pressing the panic button. Device position is retrieved from inbuilt GNSS module or various radio networks with server application. Emergency calls use Cellular networks. The device is meant to be used mainly for safety communication and tracking purposes in case of accident in potentially explosive areas. The battery pack inside the equipment is not user replaceable. The battery pack has a special safety circuit. Safety circuit is used to limit the current or to provide fast cut-off of supply voltage in case of electronics or segregation failure. The enclosure is static dissipative plastic. Maximum radio frequency power is limited to 2 W (33 dBm).

TWIG One Ex type TLP50EU is 2G, 3G and 2G, 3G & 4G device, TWIG One Ex type TLP51EU is for PLS8 based device and TWIG One Ex type TLP53EU is for PLS63 based device.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Connection to the charger input of the phone or docking stations is only allowed with TWIG USB cable or TWIG battery or car charger.
2. The device shall not be recharged or programmed inside hazardous area.
3. SIM card shall not be changed inside hazardous area.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Alternative LCD display introduced. Main assembly drawing updated accordingly. Parts list with alternative component types introduced.