EU Declaration of Conformity

Fency^{v6+} — Fence Monitoring System

Document reference:	MSE-FNC-DOC-2026-001
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Issued in accordance with:	Annex VI of Directive 2014/53/EU (RED)

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This declaration supersedes the prior issue dated 25 September 2025.

The full Technical Documentation File (**MSE-FNC-TDF-2026-001**) is held at the manufacturer's address and made available to authorities on reasoned request in accordance with Article 21 of Directive 2014/53/EU.

1 Manufacturer

Legal entity:	MS Electronics GmbH
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Commercial register:	FN 426644v, Commercial Court Wien
Authorised person:	Dipl.-Ing. Josef Filzmaier, Managing Director

The manufacturer is established within the European Union; therefore no separate Authorised Representative pursuant to Article 11(1) of Directive 2014/53/EU is required.

2 Object of the Declaration

Product name:	Fency^{v6+}
Product kind:	Cellular IoT fence monitoring system
Trademark:	Fency®
Hardware revision covered:	V6+

Product variants covered by this declaration:

Article No.	Designation	Power input	Mains PSU
51680301	Fency Set 12V	9–15 V DC (external)	no
51680309	Fence Control	9–15 V DC (control unit)	no
51680314	Fency Set 230V	230 V AC, 50 Hz (integrated)	yes
51680315	Fency Set 12V/230V Duo	9–15 V DC and 230 V AC, switchable	yes

All variants share a common cellular IoT main board based on the Quectel BG95-M3 module, mechanical enclosure, internal Li-polymer battery (LiPol Battery Co., Ltd LP802030, 3.7 V / 400 mAh / 1.48 Wh, with integrated PCM) and high-voltage fence-input front-end. The Fency monitoring device itself never sees mains voltage; its DC input is rated 9–15 V DC. Variants 51680314 and 51680315 are bundled with the Powerswitch mains accessory (MS Electronics article 51680205), which is a separately CE-marked apparatus covered by its own Declaration of Conformity **MSE-PSW-DOC-2026-001**; the present declaration covers only the Fency monitoring device contained in those kits.

A photograph of each variant is contained in the Technical Documentation File, Annex A.

3 Declaration

We, MS Electronics GmbH, declare under our sole responsibility that the products identified above are in conformity with the relevant Union harmonisation legislation listed in Section 4, when used in accordance with their intended purpose and the instructions for use supplied with the product.

4 Applicable Union Harmonisation Legislation

Reference	Title / scope
Directive 2014/53/EU (RED)	Radio Equipment Directive — primary directive; covers radio, EMC and electrical-safety essential requirements of the product.
Directive 2011/65/EU + (EU) 2015/863 (RoHS)	Restriction of Hazardous Substances.
Directive 2012/19/EU (WEEE)	Waste Electrical and Electronic Equipment — marking and producer-registration.
Regulation (EU) 2023/1542 (Batteries)	EU Battery Regulation — applicable to the integrated portable secondary Li-ion cell.
Regulation (EC) No 1907/2006 (REACH)	Registration, Evaluation, Authorisation and Restriction of Chemicals; SVHC compliance.
Regulation (EU) 2024/2847 (CRA)	Cyber Resilience Act — listed for awareness; full applicability 11 December 2027. Current cybersecurity essential requirements are addressed via Article 3.3(d)(e)(f) of the Radio Equipment Directive (Delegated Regulation (EU) 2022/30, mandatory since 1 August 2025).

5 Applied Harmonised Standards

The following harmonised standards (or parts thereof), the references of which have been published in the Official Journal of the European Union, have been applied. Conformity with these standards confers presumption of conformity with the corresponding essential requirements.

5.1 Article 3.1(a) — Protection of health and safety

Standard	Application
EN IEC 62368-1:2020 + A11:2020	Audio/video, information and communication technology equipment — general electrical safety.
EN 50665:2017	Generic standard for assessment of electronic and electrical equipment related to human exposure to electromagnetic fields (0 Hz – 300 GHz).
EN IEC 62311:2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields.
EN 62479:2010	Low-power electronic and electrical equipment exposure assessment (< 20 mW exclusion).

5.2 Article 3.1(b) — Electromagnetic compatibility

Standard	Application
EN 301 489-1 V2.2.3 (2019-11)	EMC for radio equipment and services — common technical requirements.
EN 301 489-52 V1.2.1 (2021-11)	EMC — specific conditions for cellular communication user equipment (UE).
EN 301 489-19 V2.2.1 (2022-09)	EMC — specific conditions for receive-only mobile earth stations (1.5 GHz GNSS receivers).
EN 55032:2015 + A11:2020	Multimedia equipment — emission requirements.
EN 55035:2017 + A11:2020	Multimedia equipment — immunity requirements.

5.3 Article 3.2 — Effective and efficient use of the radio spectrum

Standard	Application
EN 301 511 V12.5.1 (2017-03)	GSM — mobile stations in the GSM 900 / DCS 1800 bands.
EN 301 908-1 V15.2.1 (2024-04)	IMT cellular networks — general requirements.
EN 301 908-13 V13.2.1 (2022-09)	IMT cellular networks — E-UTRA (LTE Cat-M1) user equipment.
EN 303 413 V1.2.1 (2021-04)	Satellite earth stations and systems (SES); GNSS receivers (1 164–1 300 MHz, 1 559–1 610 MHz).

5.4 Article 3.3(d), (e), (f) — Cybersecurity (Delegated Regulation (EU) 2022/30)

Standard	Application
EN 18031-1:2024	Common cybersecurity requirements for radio equipment connectable to the internet — Article 3.3(d). Applied with documented compensating measures relied upon for individual mechanisms within the scope of the standard; see Section 7 and the Technical Documentation File.
EN 18031-2:2024	Cybersecurity requirements for radio equipment processing personal, traffic or location data — Article 3.3(e).

Note: EN 18031-3:2024 (radio equipment processing virtual currency or monetary value, Article 3.3(f)) is **not** applied because the product neither stores, transfers nor authorises virtual currency or monetary value transactions.

5.5 Other applied standards

Standard	Application
EN IEC 63000:2018	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances (RoHS).
IEC 62133-2:2017 + A1:2021	Secondary cells and batteries — portable sealed Li-ion cells; applied to the integrated 3.7 V / 400 mAh Li-polymer cell (LiPol LP802030) at component level.
UN 38.3 (Rev. 7, Section 38.3)	Lithium battery transport-safety tests; applied to the integrated battery cell.

6 Radio Parameters and Frequency Bands

Cellular radio module: Quectel BG95-M3 — CE-certified by Quectel Wireless Solutions Co., Ltd. (declaration referenced in TDF Annex F). The module's NB-IoT (Cat-NB2) capability is *disabled* on this product by host firmware band-mask; only GSM/EGPRS and LTE Cat-M1 are operationally supported.
Radio-equipment class: Class 1 (operates harmonised within the EU/EEA without licensing restrictions).

Air interface	Frequency band(s)	Max. RF power
GSM 850	824–849 / 869–894 MHz	+33 dBm GMSK
E-GSM 900	880–915 / 925–960 MHz	+33 dBm GMSK
DCS 1800	1710–1785 / 1805–1880 MHz	+30 dBm GMSK
PCS 1900	1850–1910 / 1930–1990 MHz	+30 dBm GMSK
LTE Cat-M1	3GPP B1 (2100), B3 (1800), B8 (900), B20 (800)	+23 dBm (PC3)
GNSS receive	GPS L1 1575.42 MHz; Galileo E1 1575.42 MHz; BeiDou B1 1561.098 MHz; L1-SBAS 1575.42 MHz	receive only

GSM 8-PSK power classes are Class E2 (+27 dBm at 850/900; +26 dBm at 1800/1900). LTE Cat-M1 is constrained by host firmware to bands B1, B3, B8 and B20 to match the integrated 0 dBi antenna; the wider BG95-M3 silicon band set and its Cat-NB2 (NB-IoT) capability are **not** declared. Band selection within the declared set is determined by the active SIM operator.

7 Conformity Assessment Procedure

Module A — Internal Production Control (Annex II of Directive 2014/53/EU) has been applied. The harmonised standards listed in Section 5 have been applied to the essential requirements of Articles 3.1(a), 3.1(b), 3.2 and 3.3(d)(e) of the Radio Equipment Directive; Article 17(2) of that Directive permits the Module A route on this basis. The per-mechanism assessment under EN 18031-1, including the specific mechanisms for which documented compensating measures are relied upon in lieu of the standard's normative requirement, is recorded in the Technical Documentation File (**MSE-FNC-TDF-2026-001**, Sections 9 and 17). The compensating measures preserve the essential cybersecurity requirements of Article 3.3(d)(e) of the Radio Equipment Directive.

Radio-equipment compliance reuses the Quectel BG95-M3 supplier certification, integrated per the supplier's design guidance and verified at the integrated-product level. No notified body was involved in the assessment of the radio-essential requirements.

8 Technical Documentation

The technical documentation required by Annex V of Directive 2014/53/EU is compiled and maintained at the manufacturer's address under reference **MSE-FNC-TDF-2026-001** and is made available to the competent national surveillance authorities on reasoned request, in compliance with Article 21 of Directive 2014/53/EU.

9 Signed for and on Behalf of the Manufacturer

Place of issue: Vienna, Austria
Date of issue: 30 April 2026
Name: Dipl.-Ing. Josef Filzmaier
Position: Managing Director (Geschäftsführer)

Signature: