

Notified Body Type Examination Certificate Council Directive 2014/53/EU

Inxpect S.p.A.

Via Serpente, 91
25131 Brescia
Italy

Certificate

AN24C01065-1

Issue date¹

October 21, 2024

¹This certificate expires 3 years after the issue date. Revisions of the applied standards and/or modifications to the approved type which may affect the conformity of the radio equipment with the essential requirements of Directive 2014/53/EU may also have an impact on the validity of this certificate.

S202A

The above model has been evaluated and conforms, subject to any restrictions stated in the attached Annex, with the essential requirements of Annex III, Module B, of the Council Directive 2014/53/EU on Radio Equipment (RED) and the mutual recognition of their conformity, in relation to the essential requirements of the articles identified in the Scope of Examination.

Signed:



Andrew Hoare

Details of this certification, standards used, RF parameters of this equipment and other information necessary for the correct interpretation and application, including any remarks, restrictions or observations are detailed in the attached Annex.

This is to certify that (a) sample(s) of the Product described herein has been investigated and found to be in compliance with the Standard(s) indicated on this Certificate. This Certificate applies only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/ Manufacturer are solely and fully responsible for conformity of all products to all applicable standard(s), specifications or requirements.

This Certificate shall only be used in its entirety

Annex

Scope of examination

Article	Applied standard(s) (and version) or reference.
Article 3.1a Health and Safety:	IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016 EN 62311:2020
Article 3.1b EMC	EN 61000-6-3:2021; EN 61496-1:2020 ETSI EN 301 489-1 V2.2.3; ETSI EN 301 489-3 V2.1.1
Article 3.2 Radio Spectrum use	ETSI EN 305 550-1 V1.2.1; ETSI EN 305 550-2 V1.2.1

Technical documentation details

Title:	Technical file S202A
Reference number:	V01
Issue date:	09/10/2024 plus updates
Contact name:	Devis Dei

General product details

Brand / Trade Name:	Smart Sensor 200 Series
Model Number(s) / Type Designation:	S202A
Build Version / Revision Level:	Ver 1.1
Software Name and Version:	"Inxpect Safety Application 3D", version 3.00.00.
Operating Frequency	61.2-63.4 GHz
Declared Average Output Power	+12 dBm EIRP.
Additional Information (modulation)	Linear FMCW
Description of Use / Function:	Radar sensor for functional safety applications
Manufacturers Company Name:	Inxpect S.p.A.

Accessories

None

Product variant details

Details of Product Variant(s) covered by this Notified Body Certification: None

Assessment methods applied

References to RE-D harmonised standards consider Official Journal entries to the Commission Implementing Decision (EU) 2023/2669 of 27 November 2023.

This device does not fall under the scope of the limited number of harmonised standards that address the essential requirements of Article 3.1a. The standards used to assess this device are considered state of the art as they are currently harmonised under the Low Voltage Directive (LVD) for the purposes of evaluating electrical safety and RF exposure. The LVD has the same essential requirements with regards to safety as the RE-D.

Compliance with rf exposure requirements is based on a Maximum Permissible Exposure calculation.

There are currently no harmonised standards listed to cover an assessment of this device against the essential requirements of Article 3.1b. The standards used are considered state of the art as they are the most recent draft or published candidate standards for use with the Radio Equipment Directive (RE-D) covering this type of equipment for the assessment of the EMC for the radio functions. Assessment of other functions was made using harmonised standards for the EMC Directive which has the same essential requirements as Article 3.1(b) of the RE-D.

EN 305 550-2 V 1.2.1 does not confer a presumption of conformity with the essential requirement as regards the receiver performance parameters, therefore Receiver Interference Signal Handling tests in accordance with Draft EN 305 550 V 2.1.0 were additionally performed.

The standards used represent state of the art with respect to demonstrating compliance with the essential requirements of the RE-D. The manufacturer needs to consider re-assessment of compliance as newer versions of standards used are published and harmonised.

Remarks and observations

The manufacturer's declaration of conformity (DoC) appropriately lists the standards used and identifies the equipment by a model number. The additional inclusion of batch or serial numbers in the DoC may be required to identify which version of a DoC applies whenever the DoC is updated and applies only to specific versions of a model (e.g. after a modification to meet a requirement introduced through revisions in standards). The simplified DoC is included in the user documentation, meeting the requirements of Article 10.9. The EU Declaration of Conformity and the Technical Documentation, which includes this certificate, shall be kept at the disposal of the National Authorities for ten years after the radio equipment has been placed on the market.

The Notified Body number, 0984, should be included in the DoC (See RE-D Annex VI, item 7).

The product labelling and product packaging contained the CE mark as required by the RE-D. As required by article 10.7 the registered trademark / name of the manufacturer and their postal address is/are indicated on the equipment. The product labeling included serial number allowing its identification as required by the RE-D.

The product is considered a Class 1 device with no restrictions on use as described in the *Publication in accordance with Article 1(3) of Commission Decision 2000/299/EC (Version January 2020)*. As of the date this certificate was issued the publication was available for download from the [Europa website](#).

It is the responsibility to the manufacturer to ensure the ongoing compliance of this equipment. The manufacturer shall inform the notified body of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of the Radio Equipment Directive or the conditions for validity of this certificate. Such modifications shall require additional approval in the form of an addition to this EU-type examination certificate.

Revision history

October 21, 2024 Original version (-1) released.