

EU-Type Examination Certificate

2051-RED-193001

In compliance with Directive (EU) No 2014/53 of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment (RED), this certificate applies to the product(s)

Radar based volumetric virtual safety barrier
Model: LBK System (sensor LBK-S01 + controller LBK-C22)

Placed on the market under the name or trade mark of

Inxpect S.p.A.
Via Serpente 91
25131 - Brescia, Italy

This certificate attests that all provisions concerning the assessment and verification of performance described in the standard(s)

Art 3.1a: EN 61010-1:2010
EN 62311:2008
Art 3.1b: ETSI EN 301 489-1 V2.1.1:2017
ETSI EN 301 489-3 V2.1.1:2017
EN 61326-3-1:2017
EN 61000-6-2:2005 + AC:2005
Art 3.2: ETSI EN 300 440 V2.1.1:2017

as per Annex III (Module B) for the performance set out in this certificate, are applied.

Certificate issued July 22, 2019
Certificate was first issued July 22, 2019

Certificate Revision: 0

Nemko S.p.A.
Authorized signatory: Marco De Angelis

NB 2051


This certificate has been granted by Nemko Spa a Socio Unico, Via del Carroccio 4, 20853 Biassono (MB), Italy

This certificate remains valid, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Nemko. Should the specified regulations or standards be amended, the products are to be re-approved prior to being placed on the market. Nemko Spa is designated by the Italian Notifying Authority "Ministry of Economic Development".

Any person not a party to the contract pursuant to which this document is delivered may not assert a claim against Nemko for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel in the establishment or issuance of this document, and in connection with any activities for which it may provide.

ANNEX 1 – PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION

Equipment identification:	Radar based volumetric virtual safety barrier
Model/type:	LBK System (sensor LBK-S01 + controller LBK-C22)
Variants:	LBK-S01-XX LBK-S01-XXX LBK-C22-XX LBK-C22-XXX (where XX & XXX are a string of alphanumeric characters used only for commercial purposes; this string does not modify the product characteristic).
Brand/trade name:	 INXPECT
Supply voltage:	LBK-S01: 12 Vdc (powered by LBK-C22) LBK-C22: 24 Vdc
Rated power/current:	LBK-S01: 11 W (max configuration: controller + six sensors) LBK-C22: 3.8 W

TECHNICAL CHARACTERISTICS

Type of radio interface:	SRD
Intended purpose:	Radar for monitoring access in dangerous areas
Class of equipment:	Class II of Commission Decision 2000/299/EC (restricted frequency band in UK and France: 24,050 ÷ 24,250 GHz)
Frequency range:	24,000 ÷ 24,250 GHz
Transmit power:	16.5 dBm (max, measured @ -40°C), 12 dBm (typ, measured @ 25°C)
Modulation type:	FM-CW
Maximum duty cycle:	13.8%
Antenna type:	Integral PCB antenna
Maximum antenna gain:	≤ 10 dB
Firmware:	Not applicable

MANUFACTURER

Name:	Inxpect S.p.A.
Address:	Via Serpente 91 - 25131 - Brescia, Italy

ADDITIONAL INFORMATION

None.

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ANNEX 2 - SCHEDULE OF APPROVAL

SCOPE OF EXAMINATION

- | | |
|--|----------|
| <input checked="" type="checkbox"/> Protection of Health and Safety, according to Article 3(1)(a). | COMPLIES |
| <input checked="" type="checkbox"/> Electromagnetic Compatibility (EMC), according to Article 3(1)(b). | COMPLIES |
| <input checked="" type="checkbox"/> Radio Spectrum Use, according to Article 3(2). | COMPLIES |
| <input type="checkbox"/> Special Radio Features, according to Article 3(3)(a)-(i). | N/A |

APPLICATIONS/LIMITATIONS

Nil.

MARKING OF PRODUCT

The Manufacturer and Type Designation shall be applied to the product in a visible location.
The equipment shall carry the CE marking of the European Union.

TYPE EXAMINATION DOCUMENTATION

Test report(s)

- Safety test report by Elettra Srl (id: R-EL-1129-0718-01A, dated: 2018-08-10)
- Health test report by Inxpect SpA (id: LBK-S01 power density according with EN62311, rev. v01 dated: 2019-01-03)
- EMC test report by CMC Srl (id: R18124201, dated: 2018-06-14)
- EMC test report by CMC Srl (id: R18095201_rev20, dated: 2018-10-08)
- EMC test report by CMC Srl (id: R18124101_rev20, dated: 2018-10-08)
- Radio test report by Nemko SpA (id: 362025TRFWL, dated: 2018-11-22)

Additional documentation

- RED technical file by Inxpect S.p.A. (id: Documentazione Tecnica LBK System LBK-S01 (sensore) e LBK-C22 (controller), Rev.v01, dated 2019-07-08)
- EU Type Examination Certificate by CTC advanced GmbH (id: T817895E-01-TEC, dated 2017-05-08)

ADDITIONAL INFORMATION

None.

<< End of certificate >>

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Nemko Italy

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