

CERTIFICAT

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認證證書

CERTIFICATE

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Italia

CERTIFICATE

**Machinery Directive 2006/42/EC Annex. IX - EC type-examination certificate for safety components
(ref. Annex IV – 19, 21)**

Certificate No.: TÜV IT 0948 21 MAC 0197 B Rev.1

Name and address of manufacturer: INXPECT S.p.A.
Via Serpente, 91
I-25131 Brescia (BS)

Address of production site: INXPECT S.p.A.
Via Serpente, 91
I-25131 Brescia (BS)

Product: Logic unit to ensure safety functions,
designed to detect the presence of persons

Model/type: SRE (Safety Radar Equipment) - SBV System
Series

Reference standards: EN ISO 13849-1:2015; EN ISO 13849-2:2012
EN 62061:2005 + A1:2013 +A2:2015
IEC/EN 61508:2010
EN 61496-1:2013
IEC TS 62998-1:2019

Test report: TR 0948 MAC 0164 B Rev. 1

We herewith certify that the safety component for the respective scope of application stated in the annex to this EC type-examination certificate meets the requirements of the Directive:

2006/42/CE

First Issue date: 15/03/2021

Issue date: 07/09/2021

Expiry date: 14/03/2026



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



TÜV Italia S.r.l.
Notified Body, Identification N° 0948

Alberto Carelli
Industrie Service Division Manager



Italia

Annex to EC type examination Certificate no. TÜV IT 0948 21 MAC 0197 B Rev.1

1. Scope

SRE (Safety Radar Equipment) – Model SBV System Series, composed by:

- controller model ISC-B01 (with PROFINET/PROFISAFE fieldbus), or
- controller model ISC-02 (without PROFINET/PROFISAFE fieldbus), or
- controller model ISC-03 (without PROFINET/PROFISAFE fieldbus, and without Ethernet interface)
- up to 6 sensors model SBV-01

The safety component is included in the Annex IV points 19 and 21 of the Machinery Directive 2006/42/EC as it belongs to the categories “Protective device designed to detect the presence of persons” and “Logic units with safety functions”.

2. Application of standards

The standards mentioned on the reference certificate of this annex (see above):

- ☒ have been completely applied
☐ have been partially applied

3. Main technical characteristics

The product is composed by:

- a controller model ISC-B01 or ISC-02 or ISC-03
- an array of up to 6 sensors model SBV-01

The ISC controller is an independent unit that can control up to six SBV-01 sensors. The controller communicates with the sensors using a CAN bus. The sensors detect movements inside a forbidden area. The controller can put the OSSD output (in redundant configuration) in safe state (de-energised state) to block the machinery movement.

The controller provides power supply for the connected sensors.

The product has the following interfaces with external world:

- Input signals (Type 3 according to EN 61131-2)
- OSSD outputs in redundant configuration
- PROFINET/PROFISAFE fieldbus output (only on ISC-B01)
- USB / Ethernet communication for system configuration (Ethernet communication not available on ISC-03)



Parameter	Value	Measuring unit
Type (EN 62061, IEC/EN 61508)	B	--
Category (EN ISO 13849-1/2)	Risk reduction equivalent to category 3	--
Architecture (EN 62061, IEC/EN 61508)	1oo1(D) (1oo2(D) for controller OSSD output)	--
MTTF _D (EN ISO 13849-1/2)	38	Years
DC _{AVG} (EN ISO 13849-1/2)	>99	%
SFF (EN 62061, IEC/EN 61508)	>99	%
CCF (EN ISO 13849-1/2)	80	--
β, β _D (EN 62061, IEC/EN 61508)	5, 2	%
PFH _D		
- Overall safety functions:	without PROFINET/PROFISAFE: 1,56E-08 with PROFINET/PROFISAFE (ISC-B01 only): 1,66E-08	1/h
- Additional safety functions:	without PROFINET/PROFISAFE: Muting: 5,13E-09 Stop signal / Restart signal: 5,14E-09	1/h
	with PROFINET/PROFISAFE (ISC-B01 only): Muting: 6,13E-09 Stop signal / Restart signal: 6,14E-09	
PL (EN ISO 13849-1/2)	d	--
SIL (EN 62061, IEC/EN 61508)	2	--
ESPE Type (EN 61496-1)	3	--
Performance Class (IEC TS 62998-1)	D	--

4. Conditions for certificate validity

The product shall be used according to the Information for Use, in particular for what concerns sensor position, installation and use (including parameterisation and validation).

5. Notes

A copy of the test report no. TR 0948 MAC 0164 B is given to the manufacturer.

The validity of the test report is linked to the validity of the EC type examination certificate no. TÜV IT 0948 21 MAC 0197 B Rev.1..

According to what foreseen by Machinery Directive 2006/42/EC, the applicant shall inform the notified body about the modifications, even if of little importance, that he made or that he wants to make to the safety component object of the certificate.

This annex is integral part of the EC type examination certificate no.

TÜV IT 0948 21 MAC 0197 B Rev.1.

Sesto San Giovanni, 07/09/2021



Information regarding the TÜV Italia Certificate

This certificate is only valid for the referenced company and its facilities stated on the certificate. Only the Certification Body is allowed to transfer (assign) it to a third party.

The right to use the marking depicted on the certificate covers solely products, which match with the type approval and the specifications within the test report or within its complementary (additional) agreements.

Each product has to contain (be accompanied) the necessary operating and assembly instructions. Each product must bear the clearly visible identification of the manufacturer or importer as well as a type plate, in order to identify the compliance of the type approval with the product placed on the market.

The holder of the TÜV Italia certificate is obliged to continuously observe if the manufacture of the marked products complies with the test requirements; he is obliged to perform the control tests defined within the test requirements or by the Certification Body in an orderly manner.

Aside from the conditions referenced above, the conditions within the General Contract are effective for the TÜV Italia certificate.

It is valid as long as the state-of-the-art requirements on which the test (approval) was based, are effective, if it was not withdrawn prior on conditions within the General Contract.

If this certificate expires or is withdrawn it has to be returned to the Certification Body immediately.