

CEIA Metal Detectors



CEIA
PN8 HIPE
Metal Detector



CEIA PN8
HIPE LARGE
Metal Detector



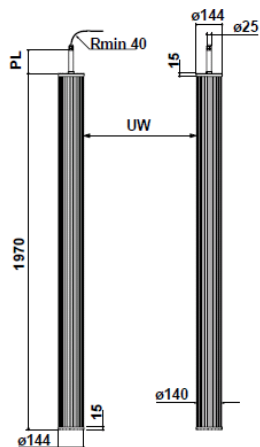
CEIA
PN8 HIPE/CF
Metal Detector



CEIA PN7
Metal Detector



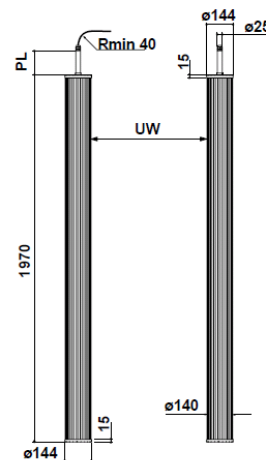
Vari tipi di antenne



PN7

UW	640 - 760
PL	40 130 250 280

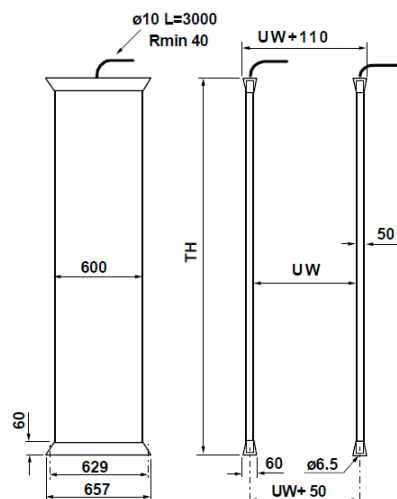
Fig. I-5a: dimensioni dell'antenna: esempio di modello con opzioni 3 e 4 (vedi sotto)



PN8

Modello	02PN8 HI-PE/CN-AS-140	02PN8 HI-PE/CN-AS-140L
UW	640 - 740	740 - 900
PL	40 130 250 280	40 130 250 280

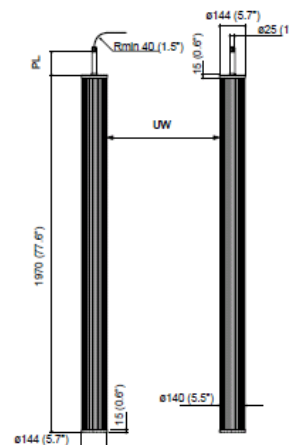
Fig. I-10a: dimensioni dell'antenna: esempio di modello con opzioni 2, 3, 5 (vedi sotto)



PN8

UW	680-900
TH	2040 2160 2172 2220

Fig. I-8: dimensioni dell'antenna

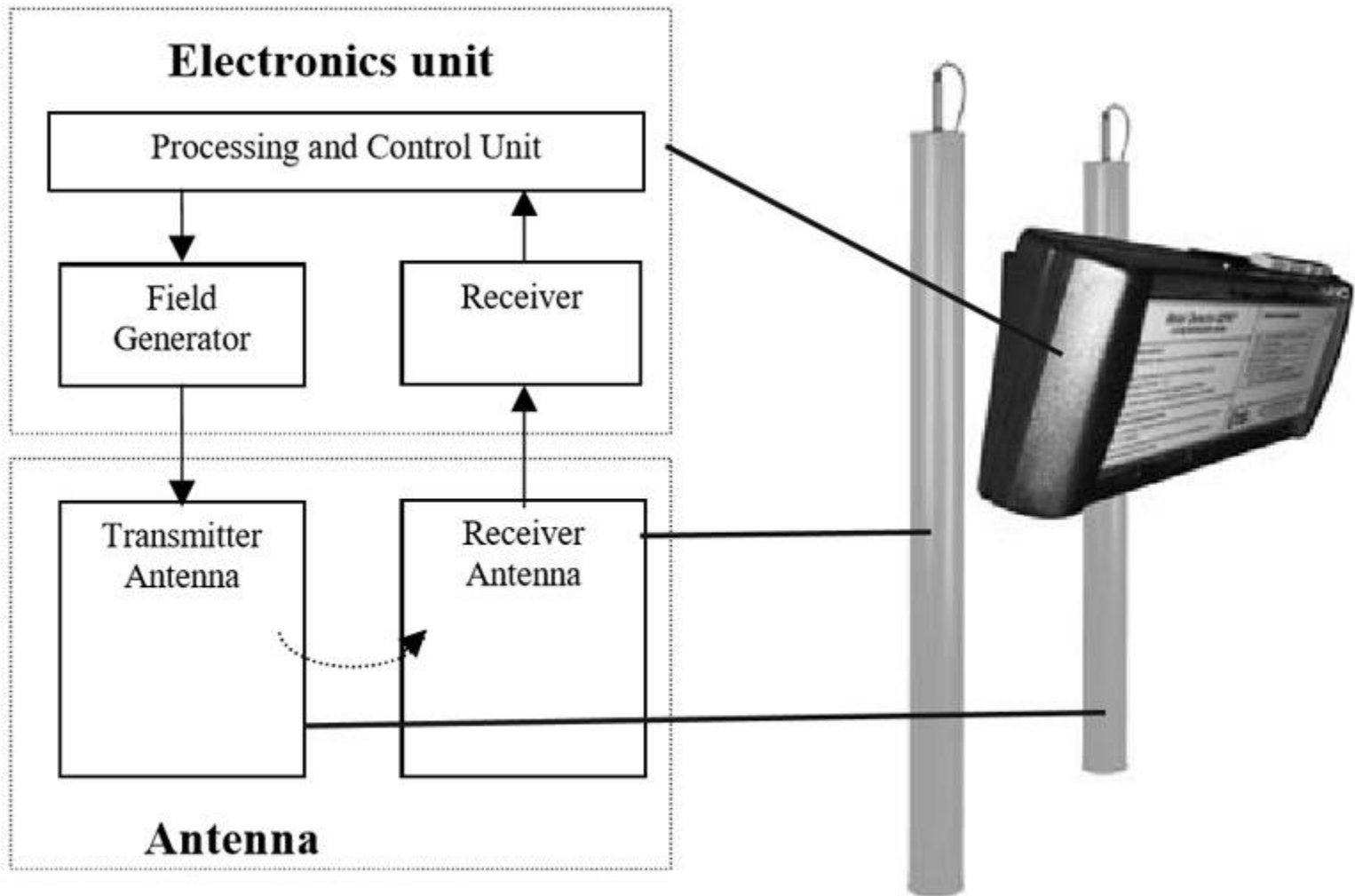


02PN8 HI-PE/CF-AS-140

PN8/CF

Modello	02PN8 HI-PE/CF-AS-140
UW	640 - 740
PL	40 130 250 280

Fig. I-4a: dimensioni dell'antenna: esempio di modello con opzioni 2, 3, 5 (vedi sotto)

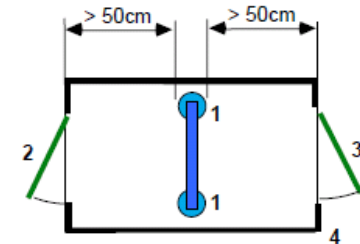
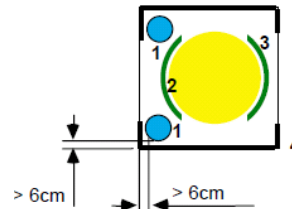
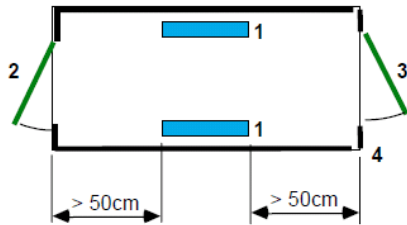


General block diagram of a Metal Detector

Tipologie di disturbi

Meccanici:

- Movimento di strutture metalliche fisse poste nelle immediate vicinanze del Metal Detector;
- Movimento soffittature di cabine interbloccate;
- Movimento di porte vicino alle antenne (se vicini meno di 50 cm per i modelli a pannelli e meno di 60 cm per i modelli a colonnette);
- Movimento dei dispositivi di pesatura.

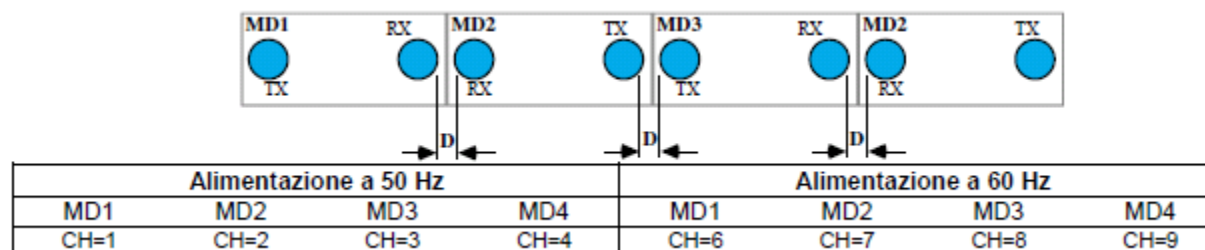
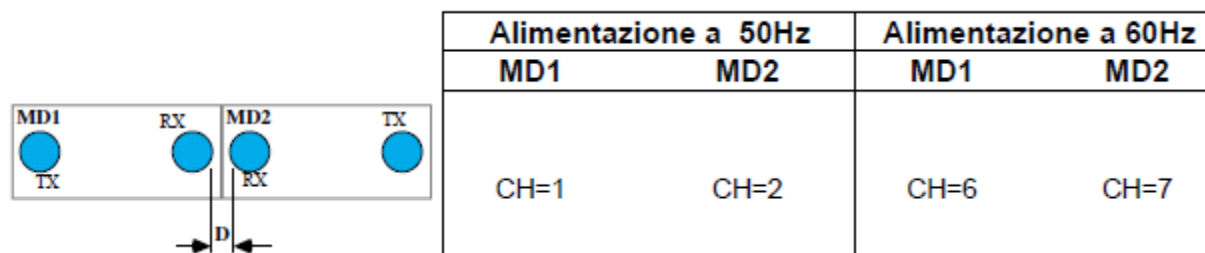


Elettrici:

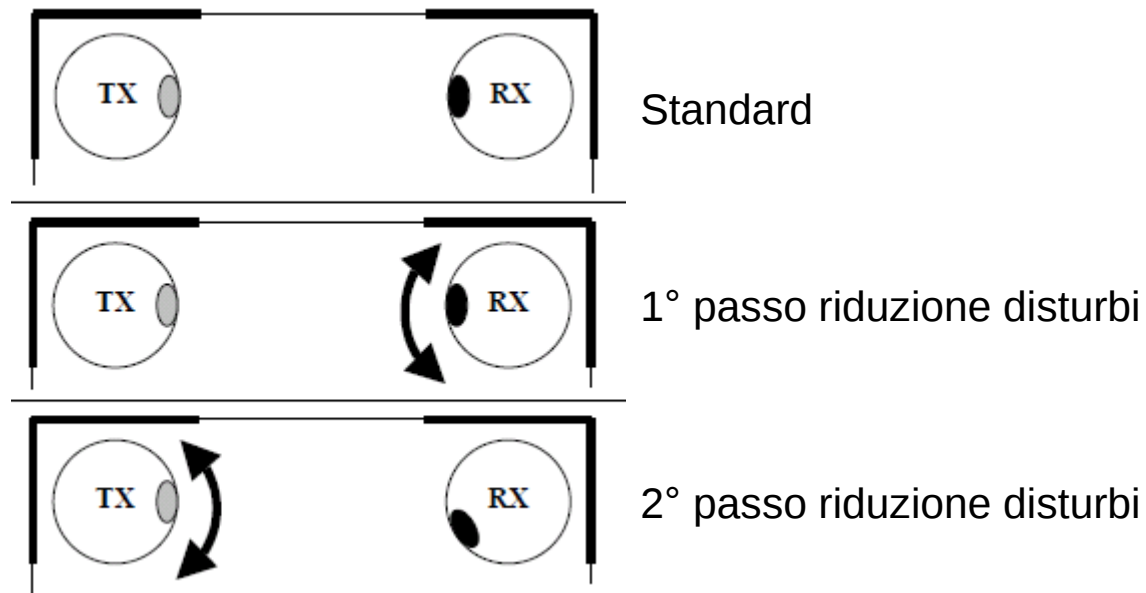
- Falsi contatti sulle parti strutturali della porta;
- Spire elettriche nella porta;
- Soglie o parti che con il movimento chiudono/aprono contatti elettrici.

Canali e cabine affiancate

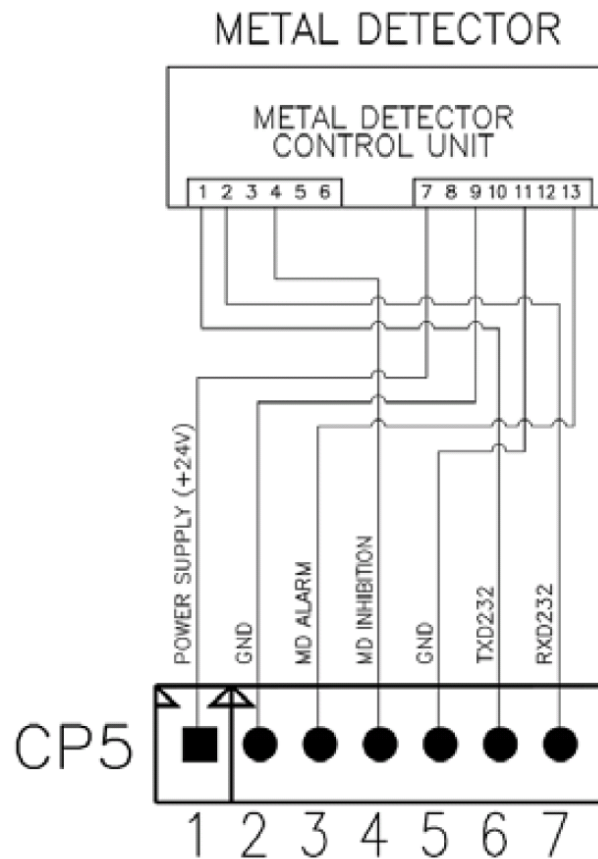
(PN7)



Orientamento antenne



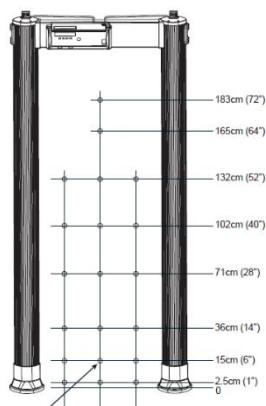
Collegamento MD-Co580



La norma di riferimento:

NILECJ –STD-0601.00

The NILECJ standard 0601.00, issued by the National Institute of Law Enforcement and Criminal Justice (USA), makes up, on an international level, a norm that is aimed at defining **a test methodology in order to evaluate the detection characteristics** of metal detectors used in the detection of weapons.



NILECJ Standard 0601.00 - Metal Detectors Test Methodolgy



Certified Test Samples
(AM9, AN7, AM7, AN5, AM5)

LEVEL	SAMPLES			
	BASIC REQUIREMENTS		ADDITIONAL REQUIREMENTS	
	Test object	Location	Test object	Location
1 Typical application: normal surveillance of buildings	AM9 Orientation:1, 2, 3	15 to 132, L, C, R	AM9 Orientation:1, 2, 3 AM9 Orientation:3	163C, 183C 36 to 132, L, C, R
2 Typical application: surveillance of buildings	AM7 Orientation:1, 2, 3	15 to 132, L, C, R	AN7 Orientation:1, 2, 3 AM7 Orientation:1, 2, 3 AM7 Orientation:3 AN7 Orientation:3	15 to 132, L, C, R 163C, 183C 163C, 183C 36 to 132, L, C, R 36 to 132, L, C, R
3 Typical application: prisons, courts	AM5 Orientation:1, 2, 3	15 to 132, L, C, R	AM5 Orientation:1, 2, 3 AN5 Orientation:1, 2, 3 AM5 Orientation:3 AN5 Orientation:3	163C, 183C 15 to 132, L, C, R 163C, 183C 36 to 132, L, C, R 36 to 132, L, C, R



AM9: AISI 4140, cold finishing, annealed (magnetic)	AM7: AISI 4140, cold finishing, annealed (magnetic) AN7: AISI 303, cold finishing, annealed (non-magnetic)	AM5: AISI 4140, cold finishing, annealed (magnetic) AN5: AISI 303, cold finishing, annealed (non-magnetic)

Controllo standard

(fino a 183 cm)

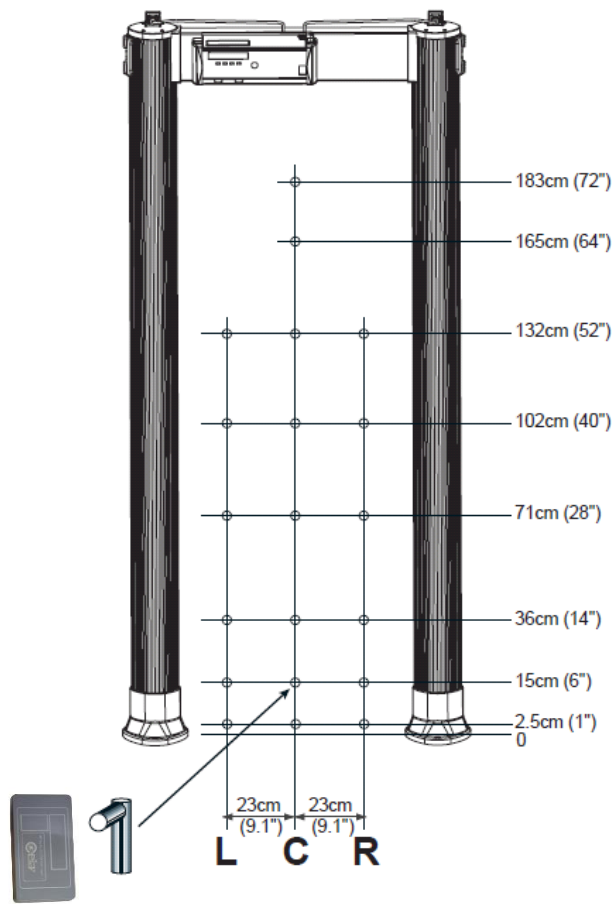


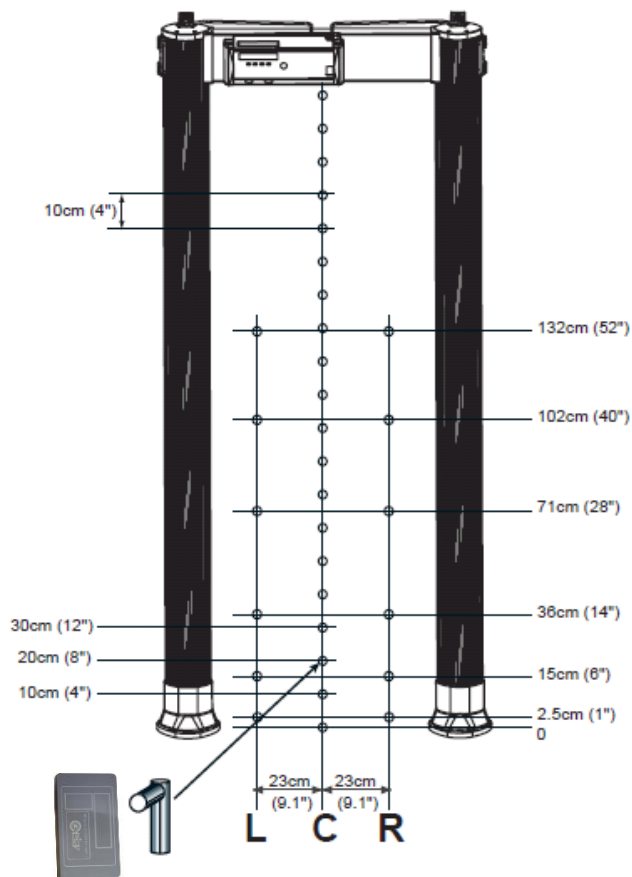
Table 2
Orientation of samples
during passage



Orientation 1	
Orientation 2	
Orientation 3	

Controllo completo

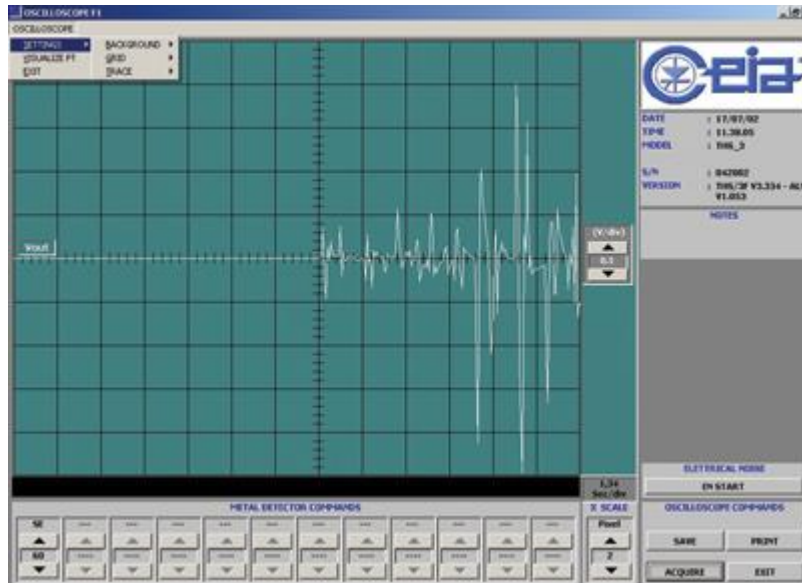
(a tutta altezza)



Orientation 1	
Orientation 2	
Orientation 3	
Orientation 4	

Attrezzi di lavoro per testare un Metal Detector installato

MD Scope



AM7



Certificati CE



ACCREDITED TESTING LABORATORY FOR ELECTROMAGNETIC FIELDS

Based on the measurement results and assessments presented in
TEST REPORT EMV-E 106/14 (2015-01-14) and **EXPERT OPINION EMV-E 107/14** (2015-01-14)
 it can be stated that the investigated device, Walk Through Metal Detector model

02PN7

manufactured by CEIA S.p.A, Costruzioni Elettroniche Industriali- Automatismi,
 Zona Industriale Vicomaggio 54/G – 56; I-52041 Vicomaggio - Arezzo, Italy

fulfils the requirements regarding personal safety in electromagnetic fields according to the
 given standards and limits listed below:

Document/Limit
EC-Rec. 1999/519/EC ⁽¹⁾
EC-Directive 2013/35/EC ⁽²⁾
EN 50364:2010 ⁽³⁾ and EN 52369-1:2009 ⁽⁴⁾
EN 62311:2008 ⁽⁵⁾
EN 50499:2008 ⁽⁶⁾
ICNIRP Guidelines 1998 ⁽⁷⁾
ICNIRP Guidelines 2010 ⁽⁸⁾
IEEE C95.6-2002 ⁽⁹⁾ IEEE C95.1-2005 ⁽⁹⁾
IEEE C95.3-2002 ⁽⁹⁾ and IEEE C95.3.1-2010 ⁽⁹⁾
ACGIH 2014 ⁽¹⁰⁾
EN 50527-1:2010 ⁽¹⁾ and EN 50527-2-1:2010 ⁽¹⁾
RPB-SC-18 - 1976 ⁽¹¹⁾
Nbs Special Publication 500.101 ⁽¹²⁾
The national archives.org (UK) ⁽¹³⁾

For details of the listed standards and documents, see page 2 of this document.

Note: According to its technical specification the DUT does not emit ultraviolet, ionizing, microwave- and laser-radiation.

Date: 2015-01-14

Expert:

Authorized Signature:

Comment: The test results refer exclusively to the test subject.

02PN7 Compliance Testing Summary (2015-01-14) - Page 1 of 2

Seibersdorf Labor GmbH | 2444 Seibersdorf, Austria | Tel: +43 (0) 50550-2500 | Fax: +43 (0) 50550-2502 | Mail: office@seibersdorf-laboratories.at
 www.seibersdorf-laboratories.at | Landesgericht Wiener Neustadt | FN 319187v | DVR: 4030728 | UID: ATU94767504 | Steuernummer: 19265/1 | Zertifikat nach ISO 9001:2008
 Betriebsprüfung, Erste Bank der Österreichischen Sparkassen AG | BLZ: 2011 | Konto-Nr.: 201-140-38050 | IBAN: AT112011120114038050 | BIC: GIBAA1333



ACCREDITED TESTING LABORATORY FOR ELECTROMAGNETIC FIELDS

Based on the measurement results and assessments presented in
TEST REPORT EMV-E 80/14 (2015-01-14) and **EXPERT OPINION EMV-E 81/14** (2015-01-14)
 it can be stated that the investigated device, Walk Through Metal Detector model

HI-PE

manufactured by CEIA S.p.A, Costruzioni Elettroniche Industriali- Automatismi,
 Zona Industriale Vicomaggio 54/G – 56; I-52041 Vicomaggio - Arezzo, Italy

fulfils the requirements regarding personal safety in electromagnetic fields according to the
 given standards and limits listed below for all the investigated PO-settings (364LO; 50364;
 IEEE; ACGIH):

Document/Limit	PO-Setting			
	364LO	50364	IEEE	ACGIH
EC-Rec. 1999/519/EC ⁽¹⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
EC-Directive 2013/35/EC ⁽²⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
EN 50364:2010 ⁽³⁾ and EN 52369-1:2009 ⁽⁴⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
EN 62311:2008 ⁽⁵⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
EN 50499:2008 ⁽⁶⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
ICNIRP Guidelines 1998 ⁽⁷⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
ICNIRP Guidelines 2010 ⁽⁸⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
IEEE C95.6-2002 ⁽⁹⁾ IEEE C95.1-2005 ⁽⁹⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
IEEE C95.3-2002 ⁽⁹⁾ and IEEE C95.3.1-2010 ⁽⁹⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
ACGIH 2014 ⁽¹⁰⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
EN 50527-1:2010 ⁽¹⁾ and EN 50527-2-1:2010 ⁽¹⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
RPB-SC-18 - 1976 ⁽¹¹⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
Nbs Special Publication 500.101 ⁽¹²⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT
The national archives.org (UK) ⁽¹³⁾	COMPLIANT	COMPLIANT	COMPLIANT	COMPLIANT

For details of the listed standards and documents, see page 2 of this document.

Note: According to its technical specification the DUT does not emit ultraviolet, ionizing, microwave- and laser-radiation.

Date: 2015-01-14

Expert:

Authorized Signature:

Comment: The test results refer exclusively to the test subject.

HI-PE Compliance Testing Summary (2015-01-14) - Page 1 of 2

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 www.seibersdorf-laboratories.at | Landesgericht Wiener Neustadt | FN 319187v | DVR: 4030728 | UID: ATU94767504 | Steuernummer: 19265/1 | Zertifikat nach ISO 9001:2008
 Betriebsprüfung, Erste Bank der Österreichischen Sparkassen AG | BLZ: 2011 | Konto-Nr.: 201-140-38050 | IBAN: AT112011120114038050 | BIC: GIBAA1333

Certificati CF



**LACE - LABORATORIO DI COMPATIBILITÀ
ELETTROMAGNETICA**

Zona Industriale Viciomaggio 52040 AREZZO – ITALY
Tel. 0575 4181 - Fax. 0575 418290 - EMail:info@emc-lace.com - Web site: www.emc-lace.com

**ORGANISMO COMPETENTE IN MATERIA DI COMPATIBILITÀ
ELETTROMAGNETICA**

Riconosciuto con Decreto del Ministero delle Comunicazioni del 11 / 11 / 1998

LABORATORIO ESTERNO ALTAMENTE QUALIFICATO

Riconosciuto dal Ministero dell'Università e della Ricerca Scientifica
Ai sensi della legge n. 46/1982 e del D.M. del 15/12/1994

**RT 020801
AREZZO 20 FEBBRAIO 2002**

**VERIFICA DELLA COMPATIBILITÀ TRA
LA CABINA COMETA MODELLO
COI 122.90CF E IL METAL DETECTOR
CEIA MOD. HI-PE/CF SECONDO LA
PROCEDURA EM006 Rev. 2**



**LACE - LABORATORIO DI COMPATIBILITÀ
ELETTROMAGNETICA**

Zona Industriale Viciomaggio 52040 AREZZO – ITALY
Tel. 0575 4181 - Fax. 0575 418290 - EMail:info@emc-lace.com - Web site: www.emc-lace.com

**ORGANISMO COMPETENTE IN MATERIA DI COMPATIBILITÀ
ELETTROMAGNETICA**

Riconosciuto con Decreto del Ministero delle Comunicazioni del 11 / 11 / 1998

LABORATORIO ESTERNO ALTAMENTE QUALIFICATO

Riconosciuto dal Ministero dell'Università e della Ricerca Scientifica
Ai sensi della legge n. 46/1982 e del D.M. del 15/12/1994

**RT 992601
AREZZO 02 LUGLIO 1999**

**VERIFICA DELLA COMPATIBILITÀ TRA
LA CABINA COMETA CODICE CoR 134.60
E IL METAL DETECTOR CEIA MOD. HI-
PE/CF SECONDO LA PROCEDURA EM006
Rev. 2**

Safety

EU DECLARATION OF CONFORMITY

(in accordance with EN ISO/IEC 17050-1:2010)

DECLARATION DE CONFORMITE UE (conformément à la norme EN ISO/IEC 17050-1:2010) EU-KONFORMITÄTSERKÄRUNG (nach EN ISO/IEC 17050-1:2010)
DECLARACION DE CONFORMIDAD UE (según EN ISO/IEC 17050-1:2010) DICHIARAZIONE DI CONFORMITÀ UE (in conformità con EN ISO/IEC 17050-1:2010)

This declaration of conformity is issued under the sole responsibility of the manufacturer / La présente déclaration de conformité est établie sous la seule responsabilité du fabricant / Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller / La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante / La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante

Manufacturer: CEIA S.p.A.
Fabricant / Hersteller / Fabricante / Costruttore: Zona industriale Vicinaggio 54/G-56
52041 Vicinaggio Arezzo – ITALY

Declares that the product

déclare que ce produit / erklärt, daß das Produkt / dichiara che il prodotto / dichiara che il prodotto:

Product name: Walk-Through Metal Detector
Nom du produit / Produktname: Détecteur de Métaux / Elektronischer Metalldetektor
Nombre del producto / Nome: Detectores de metales / Metal Detector Elettronico

Model: Modelé / Modell / Modello / Modello: 02PN7

Product Options: This declaration covers all options
Options / options: Cette déclaration est valide pour toutes les options / Diese Erklärung ist gültig für alle Optionen
Opciones / opzioni: Este declaración es válida para todas las opciones / Questa dichiarazione è valida per tutte le opzioni

conforms to the following Product Specifications

est conforme aux spécifications suivantes / folgenden Produktspezifikationen entspricht
es conforme a las siguientes especificaciones / è conforme alle seguenti specifiche di prodotto:

Low Voltage (LVD) Directive 2014/35/EU

EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use -- Part 1: General requirements
EN 50364:2010 Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications

This product complies with the requirements of the Low Voltage Directive 2014/35/EU.
Le produit ci-dessus répond aux exigences de la Directive 2014/35/UE concernant la basse tension.
Dieses Produkt entspricht den Anforderungen an Niederspannungsgeräte gemäß der Norm 2014/35/EU.
El producto indicado cumple los requisitos de la Low Voltage Directive 2014/35/UE.
Il prodotto è conforme alle norme della direttiva 2014/35/UE sulla bassa tensione.

Electromagnetic Compatibility (EMC) Directive 2014/30/EU

EN 61000-6-1:2007 Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-3:2007 + EN 61000-6-3:2007 /A1:2011 Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

This product complies with the requirements of the EMC Directive 2014/30/EU.
Le produit ci-dessus répond aux exigences de la Directive 2014/30/UE concernant les interférences électromagnétiques.
Dieses Produkt entspricht den Anforderungen der EMC-Norm 2014/30/UE.
El producto indicado cumple los requisitos de la Directiva EMC 2014/30/UE.
Il prodotto è conforme alle norme della direttiva EMC 2014/30/UE.

Signed for and on behalf of: / Signé par et au nom de: / Unterzeichnet für und im Namen von: / Firmado por y en nombre de: / Firmato in vece e per conto di:
CEIA S.p.A. Zona Industriale Vicinaggio 54/G-56 52041 Vicinaggio Arezzo – ITALY

Arezzo, 2016-04-20



Ing. Enrico Sorini

Enrico Sorini

Lab. EMC Person in charge
Resp. Laboratorio EMC / Verantwortlicher für EMC-Labor
Resp. Laboratorio EMC / Resp. Lab. EMC

Doc. N° 02PN7 rev 0

Mod. P0401-0025 rev 0

DECLARATION OF CONFORMITY CE

DECLARATION DE CONFORMITE CE / KONFORMITÄTSERKÄRUNG CE
DECLARACION DE CONFORMIDAD CE / DICHIARAZIONE DI CONFORMITÀ CE

Manufacturer: CEIA S.p.A.
Fabricant / Hersteller / Fabricante / Costruttore: Zona industriale Vicinaggio 54/G 52041 Vicinaggio
Arezzo – ITALY

Declares that the product

déclare que ce produit / erklärt, daß das Produkt / dichiara che il prodotto / dichiara che il prodotto:

Product name: Walk-Through Metal Detector
Nom du produit / Produktname: Détecteur de Métaux / Elektronischer Metalldetektor
Nombre del producto / Nome: Detectores de metales / Metal Detector Elettronico

Model: HIPE/CF-AS
Série / Serie / Serie / Modello:

Product Options: This declaration covers all options
Options / options: Cette déclaration est valide pour toutes les options / Diese Erklärung ist gültig für alle Optionen
Opciones / opzioni: Este declaración es válida para todas las opciones / Questa dichiarazione è valida per tutte le opzioni

conforms to the following Product Specifications

est conforme aux spécifications suivantes / folgenden Produktspezifikationen entspricht
es conforme a las siguientes especificaciones / è conforme alle seguenti specifiche di prodotto:

Safety / Sécurité / Sicherheit / Seguridad / Sicurezza:

EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use -- Part 1: General requirements
EN 50364:2010 Limitation of human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 10 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications

This product complies with the requirements of the Low Voltage Directive 2006/95/EC.
Le produit ci-dessus répond aux exigences de la Directive 2006/95/CE concernant la basse tension.
Dieses Produkt entspricht den Anforderungen an Niederspannungsgeräte gemäß der Norm 2006/95/EG.
El producto indicado cumple los requisitos de la Low Voltage Directive 2006/95/CE.
Il prodotto è conforme alle norme della direttiva 2006/95/CE sulla bassa tensione.

EMC

EN 61000-6-1:2007 Electromagnetic compatibility (EMC) -- Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments
EN 61000-6-3:2007 Electromagnetic compatibility (EMC) -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments

This product complies with the requirements of the EMC Directive 2004/108/EC.
Le produit ci-dessus répond aux exigences de la Directive 2004/108/CE concernant les interférences électromagnétiques.
Dieses Produkt entspricht den Anforderungen der EMC-Norm 2004/108/EG.
El producto indicado cumple los requisitos de la Directiva EMC 2004/108/CE.
Il prodotto è conforme alle norme della direttiva EMC 2004/108/CE.

Arezzo, 2010-06-16



Person in charge Lab. EMC
Resp. Laboratorio EMC / Verantwortlicher für EMC-Labor
Resp. Laboratorio EMC / Resp. Lab. EMC

Ing. Enrico Sorini

Enrico Sorini

Mod. P0401-0012rev0