INERIS
INSTITUT NATIONAL DE L'ENVIRONNEMENT
INDUSTRIEL ET DES RISQUES

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(2) **Equipment and protection systems intended for use in potentially explosive atmospheres Directive 94/9/EC**

(1) EC-TYPE EXAMINATION CERTIFICATE

(3) Number of the EC type examination certificate: **INERIS 02ATEX0043**

(4) Protection apparatus or system:

VIBRASWITCH DETECTORS TYPE EFSRC... or CPSC...
(The points are remplaced by numbers and /or letters corresponding to manufacturing variation.)

(5) Manufacturer: **ITALSMEA**

(6) Address: Via per Cernusco, 15
20060 BUSSERO (MI)
ITALY

(7) This protection system or equipment and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this protection system or equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protection systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N°35106/02.

(9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014	of June	1997 + A1 and A2
EN 50 018	of November	2000
EN 50 0281-1-1	of September	1998

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

(10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protection system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

(11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system, these are not covered by this certificate.

(12) The marking of the equipment or the protection system will have to contain:

Ex II 2 GD **EEx d IIC T6 IP65 T85°C**

Verneuil-en-Halatte, 2002 06 24

X. LEFEBVRE

Engineer at the Laboratory of Certification of Materials
ATEX

Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy manager of Certification

ATMOSPHERES EXPLOSIVES ORGANISME NOTIFIE INERIS NOTIFIED BODY EXPLOSIVE ATMOSPHERES

(13) # ANNEX

(14) **EC TYPE EXAMINATION CERTIFICATE N°INERIS 02ATEX0043**

(15) **DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM**

Vibraswitch detectors manufactured in two models 366 and 376.

PARAMETERS RELATING TO THE SAFETY

Maximum power : 20 W
Maximum current : 5 A
Maximum supply voltages for model 366 : 230 V (DC) /460 V (AC)
Maximum supply voltages for model 376 : 230 V (DC) /240 V (AC)
Frequencies : 50/60 Hz ± 5%
For using in ambient temperatures inferior to -20°C (-30°C maxi), the manufacturing is previewed by the manufacturer under his responsability. Type test have been performed under ambient temperatures required by standards.

MARKING

Marking must be readable and indelible; it must comprise the following indications:

ITALSMEA
Via per Cernusco, 15
20060 BUSSERO (MI)
ITALY

EFSRC... or CPSC...**(*)**
INERIS 02ATEX0043
(Serial number)
(year of construction)
 **II 2 GD**
EEx d IIC T6
T.Amb : -30°C to 55°C
IP65 T85°C
T cable : 90°C (Tamb : 40°C)
T cable : 105°C (Tamb : 55°C)
DO NOT OPEN WHEN ENERGIZED
DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(*) The points are replaced by numbers and/or letters corresponding to manufacturing variation.

The whole marking can be carried out in the language of the country of use.

The protection apparatus or system must also carry the marking normally envisaged by the standards of construction which relate to it.

ROUTINE EXAMINATIONS AND TESTS

According to 16.1 of standard EN 50 018, each example of the material defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 secondes under :

- 12 bar for the type CPSC,
- 13,5 bar for the type EFSRC.

(16) DESCRIPTIVE DOCUMENTS

The technical report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Descriptive Notice TN-25-2002-01 of 2002.06.04 (4 pages)
- Instructions notice vibraswitch-02E04-06 (3 pages)
- Plan n° C25200200 Rev.C of 2002.06.04
- Plan n° C25200201 Rev.C of 2002.06.04
- Plan n° C25200202 Rev.C of 2002.06.04

Those documents are signed on 2002.06.04

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are defined in the instructions.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- conformity to the European standards EN 50 014, EN 50 018 and 50 281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.