





- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP09ATEX024X**
- (4) Equipment or protective system:  
Level or flow switch
- (5) Applicant – Manufacturer :  
Magnetrol International n.v.
- (6) Address: Heikensstraat 6  
9240 Zele
- (7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) ISSeP, notified body n° 492 in accordance with article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in annex II to the Directive.
- The examination and test results are recorded in confidential report n° 08092
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
IEC 60079-0: 2007 EN 60079-1:2007 (IEC 60079-1:2007)
- (10) The symbol "X" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to 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 this Directive may 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 protective system shall include the following indications:  
 II 2 G Ex d IIC T6 Gb

Colfontaine, the 27.05.2009



Marcel Lambert,  
Manager.

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Zoning A. Schweitzer - B7340 Colfontaine (Wasmès)  
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(13)

## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE No ISSeP09ATEX024X

(15) Description of the equipment:

Level or flow switch

This apparatus consists of an aluminium alloy or cast iron housing containing 1, 2 or 3 switches operated by means of magnets, terminal blocks and an internal tube made of steel or stainless steel or hastelloy or monel or duplex mounted to the base.

This apparatus bears the type designation:

\* \* \* - \* \* \* \* - \* \* \*

Type: - level switch or

- flow switch

Type of the switch

Code of the switch

Housing made of cast iron = 3, 4, 5, 7 or 8

Housing made of aluminium alloy = 9, C or E

Each housing shall be equipped with certified Ex d IIC cable entries

The unused threaded holes shall be plugged with certified threaded plugs.

#### Electrical characteristics

Voltages: 24 VDC & 120 / 240 VAC

Maximum power dissipated: 5W

#### Eventual prescriptions

Ambient temperature range: -20°C up to +70°C or -40°C up to +65°C

#### Routine test

The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype. The housings are exempted from the overpressure routine test; however the internal tube shall be submitted to an overpressure test under the value of minimum 20 bar during at least 10 sec. (max 60 sec.)

(16) Report no 08092 of 11.05.2009 composed in total of 20 pages

The letter from the manufacturer - reference Mech-D-03b of 6 April 2009

The instructions manuals from Magnetrol Ref.: BE 45-610.11 and BE 47-603.12

The drawings:

03-7104 of 24.09.1985 Rev G signed on 17.07.2008

009-6104 of 5.04.2006 Rev J signed on 17.07.2008

010-1202 of 20.07.2004 Rev Q signed on 17.07.2008

037-7101 of 18.04.2006 Rev M signed on 17.07.2008

037-7118 of 28.01.2001 Rev F signed on 17.07.2008

99-7132 of 20.11.1998 Rev H signed on 6.04.2009

99-7133 of 10.10.1998 Rev C signed on 6.04.2009 (2 sheets)

99-7134 of 10.10.1998 Rev C signed on 6.04.2009

99-7135 of 10.06.1997 Rev E signed on 17.07.2008

99-7206 of 4.06.2002 Rev B signed on 17.07.2008 (4 sheets)

99-7207 of 5.06.2002 Rev A signed on 11.06.2002 (2 sheets)

(17) Special conditions for safe use: Symbol X

To refer to the drawings of the flameproof enclosure for the values of the flameproof joints

(18) Essential Health and Safety Requirements: covered by the standards listed under point 9 of the present certificate and by the descriptive documents from the manufacturer.

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## VARIATION

### EC TYPE EXAMINATION CERTIFICATE N° ISSeP09ATEX024X/1

(14) Equipment: level or flow switch

(15) Subject of the variation:

- To state the change of the ambient temperature range:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- To allow the mounting of another model of earthing screw and the change of the material of the terminal strip
- To state the update of the standard IEC 60079-0 by its edition 6 of 2011

Marking: Unchanged except the ambient temperature range

Eventual prescriptions :

Ambient temperature ranges:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$

Electrical characteristics

Voltages supply: 24 V DC or 120 / 240 V AC

(16) Report n° 12009 of 4.05.2012 (8 pages) completed by the descriptive documents below.

The drawings

009-6190 last modification May 2009

99-7132 Rev. J of February 2012

99-7135 Rev. F of January 2012

(17) Special conditions for safe use: unchanged

(18) Essential Health and Safety Requirements: covered by the standards listed at point 9 of the certificate

Colfontaine, 08.05.2012.

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