



**ISSEP**  
Institut scientifique  
de service public

Métrologie environnementale  
Recherche - Analyses  
Essais - Expertises


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- (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: **ISSEP07ATEX018X**
- (4) Equipment or protective system:  
Encoder – type 80EXS
- (5) Applicant – Manufacturer :  
ELCIS s.r.l.
- (6) Address: Via Rosa Luxembourg, 12/14  
I - 10093 Collegno (TO)
- (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 no 07017
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0 : 2006 (IEC 60079-0 : 2004) EN 60079-1 : 2004 ( IEC 60079-1 :2003)  
EN 61241-0 : 2006 (IEC 61241-0 : 2004) EN 61241-1 : 2004 (IEC 61241-1 :2004)
- (10) If the symbol "X" is placed after the certificate number, it 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 or T5  
II 2 D Ex tD A21 IP 6X T85°C or T100°C

Colfontaine, the 09.07.2007

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Marcel Lambert  
Director

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(13)

## SCHEDULE

(14)

### EC TYPE EXAMINATION CERTIFICATE No ISSeP07ATEX018X

(15) Description of the equipment:

The type 80EXS encoder consists of :

- One main part made of light alloy or steel
- One light alloy or steel end shield fixed by screws and crossed by shaft

#### Electrical characteristics

Max. voltage. 30V - max current : 0.18 A

#### Eventual prescriptions

Ambient temperature ranges: -20°C up to +40°C (temperature class T6)

-20°C up to +60°C (temperature class T5)

#### Routine tests

The manufacturer shall make the routine verifications and tests to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype. This apparatus is exempted from the overpressure routine test.

(16) Report no 07017 of 06.07.2007 composed in total of 28 pages

The instructions note ref WM082XB0 of 8.03.2007

The technical note U50910B of 8.03.2007

The data sheets of the sealing gasket (2 pages)

M04140A of 30.10.2001 modif. H of 1.03.2007

M044360 of 30.10.2001 modif. F of 1.03.2007

M0438000 of 12.09.2001

M0416400 of 23.02.2001

M9439700 of 24.09.2001

M00752A of 15.11.1995 modif. C of 7.09.2004

M000755A of 15.11.1995 modif. B of 24.10.2001

M0416300 of 22.02.2001

M041650 of 23.02.2001 modif. B of 22.04.2004

M041660 of 23.02.2001 modif. A of 10.09.2001

M041670 of 26.02.2001 modif. B of 10.09.2001

M0439400 of 24.09.2001

M0439500 of 24.09.2001

M0439600 of 24.09.2001

E0331900 of 20.12.1996

E55496B of 19.09.2001

U508800 of 21.02.2001 modif. A of 10.09.2001

U50881A of 21.02.2001 modif. C of 8.03.2007

U5089100 of 27.02.2001

U5097000 of 19.09.2001

(17) Special conditions for safe use: Symbol X

The supply cable permanently connected to the apparatus shall be compatible with a temperature of at least 100°C and its free end shall be adequately connected.

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

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## VARIATION

### EC TYPE EXAMINATION CERTIFICATE No ISSeP07ATEX018X/1

- (14) Equipment:  
Encoder – type 80EXS
- (15) Subject to the variation:  
The purpose of this variation is to confirm the new name of the manufacturer and applicant  
This one becomes "ELCIS ENCODER S.R.L" instead of "ELCIS S.R.L"
- Marking : Unchanged except the change of the company's name
- Eventual Prescriptions :  
Ambient temperature range: to see initial certificate
- (16) Report no 09127 of 12.11.2009 (5 pages)  
The drawings  
M04140A of 30.10.2001 modif. I of 14.10.2009  
M044360 of 30.10.2001 modif. G of 14.10.2009
- (17) Special conditions for safe use: unchanged
- (18) Essential Health and Safety Requirements: covered by the standards listed at point 9 of the initial certificate and by the descriptive documents of the manufacturer.

Colfontaine, 16.11.2009



Marcel Lambert,  
Directeur.

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This document may not be used without the original certificate



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VARIATION

EC TYPE EXAMINATION CERTIFICATE No ISSeP07ATEX018X/2

(14) Equipment:

Encoder – type 80EXS

The fastening screws of the enclosure have the property class 8.8

(15) Subject to the variation:

The purpose of this variation consists of upgrading the initial certificate with regard to the present standards as follows:

EN 60079-0:2009 (IEC 60079-0:2007)

EN 60079-1:2007 (IEC 60079-1:2007)

EN 60079-31:2009 (IEC 60079-31:2008)

Marking: Unchanged except the code: this one becomes

Ex d IIC T6 or T5 Gb

Ex tb IIIC T85°C or T100°C Db

IP 6X

Eventual Prescriptions:

Ambient temperature range: to see initial certificate

(16) Report no 11094 of 5.10.2011 (21 pages)

The e-mail from the manufacturer of 4.10.2011

The instruction notice - reference WM082XC0 dated 20.09.2011

The drawings

M04140A of 30.10.2001 modif. J of 20.09.2011

M044360 of 30.10.2001 modif. H of 20.09.2011

U50881A of 21.02.2001 modif. D of 3.10.2011

(17) Special conditions for safe use: unchanged

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

Colfontaine, 07.10.2011

Marcel Lambert,  
Director.

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