



- (2) **Component intended to be incorporate into equipment or protective system intended for use in explosive atmospheres**
Directive 94/9/EC

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 03ATEX9021U**

- (4) Component:

ENCLOSURE TYPE CCF... ou CCV...

(The points are replaced by numbers and letters corresponding to the manufacturing variations)

- (5) Manufacturer: **COELBO**

- (6) Address: Via Margherita, 83
I - 20047 Brugherio (MI)

- (7) This component and any other acceptable alternative of this one are described in the appendix of this certificate and the descriptive documents quoted in this appendix.

- (8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC 23rd March 1994, certifies that this component 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 No. P48174/03.

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


- conformity with:

EN 50 014 of June 1997 + Amendments 1 and 2
EN 50 018 of November 2000 + Amendment 1
EN 50281-1-1 of September 1998 + A1

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

- (10) Sign U, when it is placed following the Number of the EC type examination certificate, indicates this one should not be wrongly considered as an EC type examination certificate delivered for equipment or protective system. This partial certification may be used as a basis for the certification of equipment or protective system.

- (11) This EC type examination certificate refers only to the design and the construction of the component specified. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- (12) The marking of the component will have to contain:

 II 2 GD

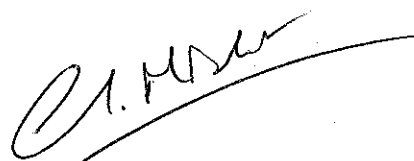
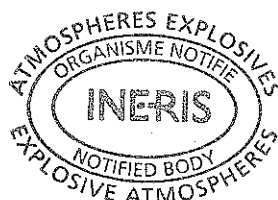
EEx d IIB IP65 or IP66

Verneuil-en-Halatte, 2003 12 30



X. LEFEBVRE

Engineer at the Laboratory of Certification
of ATEX Equipment



Director of the Certifying Body
By delegation
C. MICHOT
Certification Manager

(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 03ATEX9021U

(15) DESCRIPTION OF COMPONENT

The enclosures of different sizes are made in light alloy, they consist of in a body closed by a cover fixed by screws.

These enclosures can be fitted with rectangular or circular windows and with different control or signaling units.

These enclosures fitted with windows and with control or signaling units presents the degrees of protection IP65 without o-ring or IP66 with o-ring, according to European standard EN 60 529.

PARAMETERS RELATING TO THE SAFETY

For the signaling units :

Maximum power of the lamp : 3,5 W

Minimum and maximum admissible temperature for the sealing resin of the signaling units :

- from -50°C to 180°C for sealing resin OMNISIL 609
- from -50°C to 110°C for sealing resin OMNISIL 503

Minimum and maximum admissible temperature for the sealing resin of the windows :


- from -50°C to 180°C for sealing resin OMNISIL 609
- from -50°C to 110°C for sealing resin OMNISIL 503

MARKING

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

COELBO
I - 20047 Brugherio (MI)

CCF... or CCV... (*)
INERIS 03ATEX9021U
(Year of construction)

 II 2 GD

EEx d IIB

IP (**)

EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE

(*) The point are replaced by a codification according to the manufacturing variations. The differents types are indicated on the descriptives documents.

(**) 65 or 66. When the cover is fitted with o-ring they presents the degrees of protection IP66.

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

The component 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 sample of the flameproof enclosure defined above must have successfully passed before delivery an overpressure test, of a period comprised between 10 and 60 seconds, under 11.9 bar.

(16) DESCRIPTIVE DOCUMENTS

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

Certification file ref.COELBO 2 rev.4 dated on 2003.10.31

This file, signed on 2003.10.31, included 109 headings.

(17) SPECIAL CONDITIONS FOR SAFE USE

- The screws, used for the assembly of the cover, must be of quality higher or equal to A2-70.
- The cables gland shall be of a degrees of protection at least IP65 or IP66, according to the degrees of protection of the enclosure.

For use in potentially explosive atmospheres due to combustible dust:

- The surface of the different gaps shall be covered with grease, for example silicone for degrees of protection IP65,
- User shall perform a regular cleaning of material to limit dust layers on the material sides.

(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 EN 50281-1-1.
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

ADDITION

(3) INERIS 03ATEX9021U/01

(4) ENCLOSURE TYPE CCF... or CCV...

(5) Made by COELBO

(15) PURPOSE OF THE ADDITION

- Application of new standards EN 60079-0 : 2006, EN 60079-1 : 2004, EN 61241-0 : 2006, and EN 61241-1 : 2004,
- Introduction of group IIB + H2 except for enclosures types CCF16G, CCF16AG and CCF16BG,
- Possibility to use a new type of resin for the window cementing,
- Introduction of a new serie of devices type RS... or RX...,
- Modification of the drilling diagram for the cover and the lateral walls of the enclosures,
- Modification of the number of windows on the cover,
- Possibility to use these enclosures in ambient temperature range from -20°C to +60°C.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows :

A - For all enclosures (except enclosures types CCF 13, CCF14, CCF16G, CCF16AG and CCF16BG):


COELBO

I - 20047 Brugherio (MI)

CCF... or CCV... (*)

INERIS 03ATEX9021U

(Year of construction)

 II 2 GD

Ex d IIB + H2

Ex tD A21 IP (**)

WARNING

USE STAINLESS STEEL SCREWS WITH MINIMUM QUALITY : A2-70.

EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE.

(*) The points are replaced by a codification according to the manufacturing variations. The differents types are indicated on the descriptives documents.

(**) **65 or 66**. When the cover is fitted with O-ring, the enclosure presents the degrees of protection IP66.

(***) Indication of ambient temperature range when it is different from -20°C to 40°C.

B - Enclosure types CCF13, CCF14, CCF16G, CCF16AG and CCF16BG WITHOUT INTRASIC SECURITY ELEMENT:

COELBO

I - 20047 Brugherio (MI)

CCF... or CCV... (*)

INERIS 03ATEX9021U

(Year of construction)



II 2 GD

Ex d IIB

Ex tD A21 IP (**)

WARNING

USE STAINLESS STEEL SCREWS WITH MINIMUM QUALITY : A2-70.

EMPTY ENCLOSURE WITH Ex COMPONENTE CERTIFICATE.

(*) The points are replaced by a codification according to the manufacturing variations. The differents types are indicated on the descriptives documents.

(**) 65 or 66. When the cover is fitted with O-ring, the enclosure presents the degrees of protection IP66.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

The routine examinations and tests are modified as follows:

In accordance with clause 16.1 of the EN 60079-1 standard each apparatus defined above has to have successfully passed before delivery an overpressure test of a period comprised between 10 and 60 seconds under 11.9 bar.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- Certification file n° COELBO 21 rev.0 of 2008.06.16 (3 rubrics) signed on 2008.06.17

(17) SPECIAL CONDITIONS FOR SAFE USE

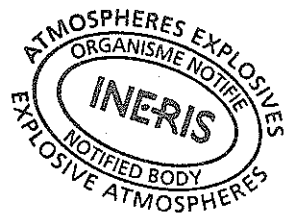
The equipment is intended to be used in an operating temperature range from -20°C to +60°C.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the European standards quoted on page 1, clause (15),
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2008 07 07



Director of the Certifying Body,
By delegation
T. HOUEIX
Certification Officer
Certification Division