



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

(2) Component intended for use on/in equipment or protective system intended for use in Potentially explosive atmospheres.
Directive 94/9/EC

(3) EC-Type Examination Certificate number **LOM 03ATEX3107U**

(4) Component Empty boxes
Type GUB...

(5) Applicant Cooper, Crouse-Hinds Division, CEAG
CEAG Nortem, S.A.

(6) Address Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN

(7) This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres, given in Annex II to the Directive.


The examination and test results are recorded in confidential report nr **LOM 03.405 ZP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 50014:1997 + A1:1999 + A2:1999**
EN 50018:2000
EN 50281-1-1:1998 + A1:2002

(10) The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EC Type examination certificate relates only to the design, examination and tests of the specified component in accordance to the directive 94/9/EC. 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 shall include the following:

 II 2GD EEx d IIC IP67

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Madrid, 6 February 2004

Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX3107U**

(A8) Description of the certificated component

Flameproof enclosures and combustible dust protected that are in cylindrical shape having threaded cover and made in aluminium alloy.

Series GUB are in different sizes according the following table:

Type	Diameter (mm)	Height (mm)
GUB 00	166	125
GUB 20	215	195
GUB 21	215	228
GUB 30	333	180

On the threaded cover can be incorporated the following devices:

- Push buttons
- Signal lamps glass windows
- Electrical switch gear manoeuver elements
- Frame glass windows

Descriptive documents of the manufacturer show the number and arrangement of such devices.

These empty boxes can be combined between them by multiwire bushings type Pcx.x. from the same manufacturer

(A4) Test report nr.: **LOM 03.405 ZP**

(A5) Individual tests

Each manufactured unit must be submitted to an overpressure test after the mechanising of holes for accessori devices and cable entries according 15.1.3 of EN 50018:2000. Test pressures will be:

960 kPa for types GUB 00, GUB 20 y GUB 21

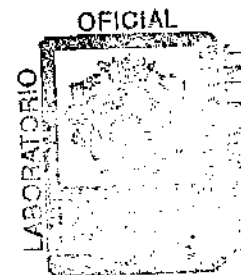
1070 kPa for type GUB 30

(A6) Essential Health and Safety Requirements

Explosion safety requisites are covered by application of the standards indicated in page 1/3 of this certificate.

(A7) Special conditios for a safe use

None



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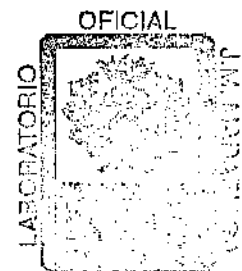
LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX3107U**

(A8) Descriptive documents:

	<u>Rcv.</u>	<u>Date</u>
- Description nr. GUB Componentes.doc	0	2003-07-14
- Drawing nr. N116112A0002	A	2002-02-28
N116112A0004	A	2002-02-28
N116112A0005	A	2002-02-28
N116113-0007	-	1996-06-20
N116113-0008	-	1996-06-20
N116113-0009	-	1996-06-20
N116113-0010	-	1996-06-20
N116113-0011	-	1996-06-20
N116113-0013	-	1996-06-20
N116113-0015	-	1996-06-20
N116113-0024	-	1996-06-20
N116113-0027	-	1996-06-20
N601114A0122	A	2003-07-14
927309	B	2003-07-14



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