



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx INE 14.0023U Issue No: 0 Certificate history:
Issue No. 0 (2014-05-13)

Status: **Current** Page 1 of 4

Date of Issue: **2014-05-13**

Applicant: **COELBO**
Via Santa Margherita, 83
20861 Brugherio (MB)
Italy

Electrical Apparatus: **Command and signaling units type DP/DFP and RS/RX**
Optional accessory:

Type of Protection: **Ex d and tb**

Marking: Ex d I Mb or IIC Gb or Ex d IIB+H2 Gb or Ex d IIB Gb
Ex tb IIIC Db IP66

*Approved for issue on behalf of the IECEx
Certification Body:*

Thierry HOUEIX

Position:

Ex Certification Officer

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques
BP n2
Parc Technologique ALATA
F-60550 Vermeuil-En-Halatte
France



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Manufacturer: COELBO
Via Santa Margherita, 83
20861 Brugherio (MB)
Italy

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6
IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[FR/INE/ExTR14.0020/00](#)

Quality Assessment Report:

[IT/CES/QAR10.0009/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The family of command and signaling units consist of two different series: DP/DFP and RS/RX.

The command unit is made in the following way: body made either in chrome/nickel plated brass (CW608N CuZn38Pb2 (OT58)) or stainless steel (AISI 304 or AISI 316L), ring made in chrome/nickel plated brass (CW608N CuZn38Pb2 (OT58)), stainless steel (AISI 304 or AISI 316L) or chrome-plated polycarbonate and a command shaft in stainless steel (AISI 304 or AISI 316L); signaling units, on the contrary, are provided with no command shaft and are complete with a tempered glass sealed with sealing resin. Command and signaling units provide versions of different controls among which knobs, pushbuttons, key commands, mushroom's buttons, rotary release, key release, etc.; in addition, series RS/RX has also a luminous push button and an acoustic signaler. These Ex components get the degrees of protection IP66 in accordance with IEC 60529.

The schedule of limitations is present on the last page of this certificate.

CONDITIONS OF CERTIFICATION: NO



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Additional information:

SCHEDULE OF LIMITATIONS:

These Ex components have been assessed to be used with a range of the operating temperatures of -50°C to +180°C due to the sealing resin AREXONS, SYSTEM SIL400.

The non transmission tests have been performed for a maximum ambient temperature of +80°C.

The widths of the flameproof joints are greater than those specified in tables of IEC 60079-1 standard.

These Ex components shall be fitted as enclosures in accordance the following maximum volumes :

- Maximum volume for Group IIB+H2: 160.6 dm³
- Maximum volume for Group IIC: 62.9 dm³

The components with width of cylindrical joints of 19 mm shall be fitted on enclosures with a maximum volume of 2 dm³.

The overpressure type tests have been performed at 20 bar.

Impact test performed at 7 J.

RATING:

None

MARKING

Marking has to be readable and indelible. It has to include the following indications:

- COELBO
- I – 20861 Brugherio (MB)
- DP/DFP and RX/RS
- IECEx INE 14.0023U
- Ex d I Mb
- Ex d IIC or IIB+H2 or IIB Gb
- Ex tb IIIC Db IP66

ROUTINE EXAMINATIONS AND TESTS

In accordance with clause 16.2 of the IEC 60079-1 standard, the operators are exempted of routine test due to the fact that they have undergone a static type test under 20 bar.